HEALTH AND METEOROLOGY OF MANCHESTER.

COMMUNICATED TO THE

Manchester and Salford Sanitary Association.

WEEKLY RETURN.

VOL. I.] WEEK ENDING SATURDAY, AUGUST 11, 1860. [No. 2.

The Tables of Disease now published are the first of a series of Weekly Returns, and include all the new cases of Disease coming under treatment in the various Medical Institutions of Manchester and Salford, commencing the week ending August 4th, 1860.

They are compiled from the voluntary contributions of Medical Men connected with the several Medical Charities of the district, with the Boards of Guardians for Manchester, and the Salford and Chorlton Unions, with the City Gaol, and the New Bailey Prison.

The general arrangement of the Tables will be readily understood. The Medical Institutions of each district are brought together under the headings Manchester, Salford, Chorlton, &c.; the population and area of these districts being also given. The returns from the Hospitals, Dispensaries, and Gaols, are recorded separately from those of the Medical Officers for each district, because the number of cases presenting themselves at these Institutions each week, may be affected by many other causes than the unhealthiness of their immediate neighbourhood. The reports of the Parish Medical Officers will permit a closer approximation to the truth; and, from the combination of the returns, it is probable that a very large and regular proportion of the sickness occurring in each district will be represented.

The list of diseases is similar to that which has already proved useful to the Medical Officers of Health in London, and has been selected so as to make the labour of contributing as light as possible.

The greater proportion of the diseases in the table belong to classes which are liable to become epidemic, but other diseases have been added, whose frequency may give a measure of the health of the several dstricts; or, may afford useful data for comparison with prevailing conditions of the atmosphere, &c. The selection might, probably, be improved, and the Committee will be glad to receive any suggestions from those interested in the subject.

The meteorological observations have been furnished by G. V. VERNON, Esq., and in a short time returns from other stations in and around Manchester may, with advantage, be combined with them.

These returns will afford a means of comparing the relative unhealthiness of the several districts of Manchester and Salford, and will thus serve to direct Sanitary and benevolent exertions; they will give plain and timely warning of the rise and progress of the various epidemics of Fever, Cholera, &c., so that preventive measures may be applied at their outset, when most likely to be effective. They will prove a most valuable series of Medical Statistics, from which conclusions may be drawn respecting the causes of disease, the laws of epidemics, and their relation to atmospheric changes, to seasons of plenty and scarcity, and many other interesting questions of Medical Science.

The Committee of the Association gratefully acknowledge the liberal support they have received from nearly every one to whom they have applied for assistance, and heartily thank those gentlemen who are so freely contributing to the returns.

COMMITTEE ROOMS,
59, KING STREET, MANCHESTER.

MANCHESTER AND SA

New Cases of Disease coming under Treatment in Pauper C

During the Week ending Sa

	MANCHESTER.															
Area in Statute Acres	Manchester Township 1,645															
Population in 1851	" " 198,162															
	Poor Law Districts.							Public Institutions.								
									Royal Infirmary.					For Children		
DISEASES.	1 Deansgate.	2 Ancoats.	3 St. George's.	4 Market Street.	5 St. Jude's.	6 St. Michael's.	Total of Districts.	7 Workhouse.	8 In-patients.	9 Out-patients.	10 District I.	11 District II.	12 District III.	13 St. Mary's Hospital.	14 General Hospital.	15 Clinical Hospital.
Small-pox	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Chicken-pox	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Measles	..	..	..	..	1	3	4	..	..	..	..	..	..	..	..	..
Scarlatina	..	..	..	1	..	..	1	..	..	..	..	..	..	..	..	..
Diphtheria	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Whooping-cough	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Croup	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Diarrhœa	..	..	2	..	2	5	9	..	..	1	3	..	..	15	..	..
Dysentery	..	..	..	1	..	..	1	..	..	1	..	..	..	..	..	..
Cholera	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Continued Fever	..	..	1	..	..	1	2	2	..	..	..	2	1	4	..	..
Erysipelas	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Puerperal Fever	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Acute Rheumatism	..	..	2	..	..	..	2	..	1	2	2	..	..	..	..	..
Constitutional Syphilis	..	..	..	..	..	..	..	7	..	1	..	..	..	..	..	..
Phthisis	..	..	1	..	..	..	1	1	..	3	3	..	2	1	..	..
Mesenteric Disease	..	..	..	..	1	..	1	1	..	..	..	..	..	2	..	..
Disease of Heart	..	..	..	..	..	..	..	..	..	..	..	2	..	..	..	..
Insanity	..	..	..	..	..	1	1	3	..	..	..	..	..	..	..	..
Bronchitis	..	1	..	1	..	..	2	5	1	2	3	5	1	4	..	..
Influenza and Catarrh	..	..	2	..	..	1	3	5	..	2	..	..	1	1	..	..
Pleurisy	..	1	..	1	..	..	2	..	..	..	..	..	..	..	..	..
Pneumonia	..	1	1	..	..	1	3	1	..	..	..	..	..	1	..	..
Dyspepsia	..	..	..	..	..	..	..	..	..	5	..	..	..	2	..	..
Kidney Disease	..	..	..	..	..	..	..	1	1	2	..	..	..	..	..	..
Neuralgic Affections	..	..	..	..	..	1	1	..	..	2	2	..	2	..	..	..
Carbuncle	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..
Ophthalmia	..	..	..	..	..	..	..	2	..	..	..	..	..	..	..	..
Accidents and diseases not classified	..	7	2	2	4	3	18	33	4	23	..	13	4	11	..	..
Total	..	10	11	6	8	16	51	61	7	44	14	22	11	41	..	..

SANITARY ASSOCIATION.

nd Public Institutions of Manchester and adjoining Districts,

11*th day of August*, 1860.

SALFORD.					HULME.			CHORLTON.		ARDWICK				
.....1,329.....					.... 477....			.. 646...		508	....	....	.....	Area in Statute Acres.
..... 63,851.					.. 53,470. ..			.. 35,546 ..		16180	....	....	....	Population in 1851.
POOR LAW DISTRICTS		PUBLIC INSTITUTIONS.			POOR LAW DISTRICTS.									
17 Greengate.	18 Regent Road.	19 Workhouse.	20 Dispensary.	21 New Bailey	22 St. George's.	23 Medlock.	24 St. Philip's	25 Poor Law District.	26 Dispensary.	27 Poor Law District.	28 Ardwick & Ancoats Dispensary.	29 Chorlton Union Work-house.	Total.	DISEASES.
..	..	..	1	..	..	.	..	..	..	..	..	..	1	Small-pox
..	..	..	..	..	..	..	..	..	..	..	..	..	..	Chicken-pox
..	..	.	2	..	..	..	..	..	1	..	2	..	9	Measles
..	..	..	..	..	..	..	..	..	..	..	1	..	2	Scarlatina
..	..	..	..	.	..	..	..	..	..	..	..	..	..	Diphtheria
..	..	..	..	..	..	..	..	..	..	..	1	..	1	Whooping-cough
..	..	..	..	..	.	..	..	..	..	..	..	..	..	Croup
1	..	..	1	..	..	1	2	..	7	..	5	..	47	Diarrhœa
..	..	..	..	..	..	..	..	1	2	..	..	..	5	Dysentery
..	..	..	..	..	..	..	..	..	..	..	..	..	..	Cholera
1	..	1	7	..	..	..	..	..	..	..	3	..	23	Continued Fever
..	..	..	..	..	..	..	..	..	..	..	2	..	2	Erysipelas
..	..	..	..	..	..	..	..	..	..	..	..	..	..	Puerperal Fever
..	..	..	3	..	..	..	..	..	2	..	1	1	14	Acute Rheumatism
..	..	..	..	..	..	..	..	..	..	..	4	..	12	Constitutional Syphilis
1	..	1	7	..	..	..	1	..	1	..	3	1	26	Phthisis
..	..	..	1	..	..	..	1	..	..	1	..	..	7	Mesenteric Disease
..	..	..	2	..	..	.	..	..	..	..	..	..	4	Disease of Heart
..	..	..	..	..	1	..	..	..	..	1	..	3	10	Insanity
..	..	3	14	..	..	..	1	1	4	1	4	..	51	Bronchitis
..	..	..	12	..	..	..	1	1	2	..	2	4	34	Influenza and Catarrh
..	..	..	3	..	..	..	..	..	..	2	1	..	8	Pleurisy
..	..	1	2	..	..	..	..	..	..	..	2	..	11	Pneumonia
3	..	..	3	..	..	..	1	..	2	..	..	..	16	Dyspepsia
..	..	..	2	..	..	..	..	..	..	..	..	..	6	Kidney Disease
..	..	..	5	..	..	..	..	..	1	..	3	..	16	Neuralgic Affections
..	..	..	..	..	1	..	..	..	..	..	..	..	2	Carbuncle
..	..	..	2	..	..	1	..	1	.	..	1	1	8	Ophthalmia
2	..	6	57	..	2	3	5	5	15	1	48	5	255	Accidents and diseases not classified
8	..	12	124	..	4	5	12	9	37	6	83	15	570	Total

METEOROLOGICAL OBSERVATIONS, TAKEN AT MANCHESTER,

For the Week ending August 11, 1860.

Barometer.

		INS.
Mean @ 32° F.		29·517
Highest	Unreduced	29·742
Lowest	Unreduced	29·280
Range		0·462

Temperature.

Adopted Mean	54·3
Range for Week	18·8
Daily Range	11·6
Maximum in Shade	65·0
Minimum in Shade	46·2
Maximum in Sun	84·7
Maximum in Sun: Black bulb in Vacuo	95·0
Minimum on Grass	41·2
Temperature in Ground at surface	53·07
Temperature 6 inches below	53·44
Temperature 12 inches below	54·90
Temperature of Evaporation	51·2
Temperature of Dew Point	48·2
Temperature of Air—Dew Point	6·1

Hygrometrical condition of the Atmosphere.

	GRS.
Weight of Vapour in a cubic foot of Air	3·83
Required to Saturate do.	0 93
Weight of a cubic foot of Air	531·2
Degree of Humidity (Saturation—1,000)	0·794

	INS.
Water in a vertical column of the Atmosphere	4·67
Elastic force of Vapour	0·338
Clouds (Covered 10. Clear—0)	8·8
Prevailing Winds	S.S.W. & S.
Rain	1·545
Days on which it fell	7

Ozonometer.

Moffat	(0—10)	0 85
Schonbein	(0—10)	0·00

	INS.
Daily Evaporation	0·084
Weekly Evaporation	0·588

Total Amount of barometric oscillations during the week 1·653 ins.; number of oscillations 7. The mean temperature of the week was 5·7 below the average of the corresponding weeks for eleven years. Ozone was detected on two days during the week. The prevailing character of the weather during the week was wet and unseasonable.

G. V. VERNON, F.R.C.S.

Old Trafford, Manchester,
August 11th, 1860.

Medical Officers to whom the Association is indebted for the annexed Returns.

(1) Mr.
(2) ,, T. W. DYSON,
(3) ,, JOHN ARMSTRONG,
(4) ,, J. O. FLETCHER,
(5) ,, C. S. BOMPAS,
(6) ,, EVAN THOMAS,
(7) ,, J. BROADBENT,
(8) ,, M. ROWLAND DAY,
(9) Dr. WM. ROBERTS,
(10) Dr. JOHN KITCHING,
(11) Dr. JOHN MEDD,
(12) Mr. J. S. DAVIES,
(13) ,, H. RUNCORN,
(14)
(15) Dr. GUMPERT,
(16) Mr. W. GOLLAND,
(17) ,, J. TEALE,
(18) ,,
(19) ,, T. F. BROWNBILL,
(20) Mr. J. O. BRADBURY,
(21) ,, W. B. STOTT,
(22) ,, T. G. RICHMOND,
(23) Dr. ALEX. WILSON,
(24) Mr. H. M. WILLIAMSON,
(25) ,, W. B. MIDWOOD,
(26) ,, E. HALLEY,
(27) ,, J. M. KIRKMAN.
(28) ,, R. C. SMITH,
(29) ,, GEO. GREAVES.

☞ Copies of the "Weekly Return" will be regularly forwarded to all Public Institutions from which information is received, also to such public officers as are willing to assist the objects of the compilation. They will also be supplied to the Subscribers upon application at the Committee Rooms of the Association.

Contributors are requested to forward their communications by the Monday in the week following that to which they relate.

The Committee would also be glad to receive any other information respecting the Health of the several districts.

Powlson and Sons, Printers, Bow Street, John Dalton Street, Manchester.

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Manchester and Salford Sanitary Association.

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59, KING STREET, MANCHESTER.

MANCHESTER AND SALF

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During the Week ending Satur

	MANCHESTER.																
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Small-pox	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..
Chicken-pox	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Measles	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Scarlatina	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..
Diphtheria	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Whooping-cough	..	..	..	..	..	..	..	..	..	1	..	..	..	1	..	..	..
Croup	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..
Diarrhœa	..	1	1	..	..	1	3	..	..	1	..	..	..	16	..	2	
Dysentery	..	1	..	..	..	..	1	..	..	..	..	..	..	1	..	..	..
Cholera	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Continued Fever	..	..	1	..	..	1	2	..	..	1	2	1	1	6	..	..	..
Erysipelas	..	..	..	..	..	..	..	1	..	..	..	1	..	..	..	..	1
Puerperal Fever	..	..	..	..	..	..	..	..	..	..	..	..		..	..	..	..
Acute Rheumatism	..	..	..	..	1	..	1	..	..	7	2	1	1	..	..	..	..
Constitutional Syphilis	..	..	..	..	..	..	..	10	..	2	..	..	..	1	..	..	..
Phthisis	..	..	2	..	..	2	4	4	..	8	2	3	1	1	..	1	..
Mesenteric Disease	..	..	..	..	..	..	..	1	..	..	..	..	..	1	..	..	..
Disease of Heart	..	..	..	..	1	..	1	..	..	1	1	1	..	..	..	..	..
Insanity	..	..	..	..	..	1	1	2	..	..	..	..	..	..	..	..	..
Bronchitis	..	..	2	1	1	2	6	11	..	17	..	..	1	3	..	..	1
Influenza and Catarrh	..	..	2	..	1	1	4	4	..	..	..	..	..	2	..	..	..
Pleurisy	..	..	..	..	..	..	..	..	.	..	..	..	..	..	..	..	..
Pneumonia	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Dyspepsia	..	..	..	..	..	..	..	2	..	3	..	..	2	3	..	..	..
Kidney Disease	..	..	1	..	..	..	1	..	..	..	..	..	..	..	..	2	..
Neuralgic Affections	..	..	..	..	..	..	..	..	..	1	..	..	..	1	..	..	..
Carbuncle	..	..	..	..	.	..	..	..	..	..	..	..	..	..	..	..	..
Ophthalmia	..	..	..	..	..	..	..	..	..	..	..	..	..	4	..	..	..
Accidents and diseases not classified	..	4	4	1	6	4	19	22	..	40	3	3	4	25	..	*2	..
Total	..	6	13	2	10	12	43	58	..	82	12	10	10	65	..	7	2

* 1 case of Purpura Hæmorrhagica.

ANITARY ASSOCIATION.

l Public Institutions of Manchester and adjoining Districts,

th day of August, 1860.

SALFORD.					HULME.			CHORLTON.		ARDWICK				
.....1,329.....					.... 477.....			.. 646...		508	....	....	.....	Area in Statute Acres.
..... 63,851.					.. 53,470. ..			.. 35,546..		16180	....	....	.....	Population in 1851.
POOR LAW DISTRICTS		PUBLIC INSTITUTIONS.			POOR LAW DISTRICTS.									
Greengate. 17	Regent Road. 18	Workhouse. 19	Dispensary. 20	New Bailey 21	St. George's. 22	Medlock. 23	St. Philip's 24	Poor Law District. 25	Dispensary. 26	Poor Law District. 27	Ardwick & Ancoats Dispensary. 28	Chorlton Union Workhouse. 29	Total.	DISEASES.
..	..	..	..	..	..	.	..	..	..	..	..	..	1	Small-pox
..	..	..	..	..	..	..	..	..	..	..	..	..	..	Chicken-pox
..	..	..	1	..	..	1	..	..	..	..	..	..	2	Measles
..	..	..	2	..	..	..	.	..	..	..	1	..	4	Scarlatina
..	..	..	..	..	..	..	..	..	..	..	..	..	..	Diphtheria
..	..	..	..	..	..	..	..	..	..	..	..	..	2	Whooping-cough
..	..	..	..	..	.	..	..	..	..	..	2	..	3	Croup
1	..	2	1	3	..	2	1	..	2	..	7	..	41	Diarrhœa
..	..	..	3	..	..	1	..	1	2	..	..	..	9	Dysentery
..	..	..	..	..	..	..	..	..	..	..	..	..	..	Cholera
..	..	..	1	..	..	1	2	..	2	..	4	..	23	Continued Fever
..	..	..	..	..	..	..	..	..	..	..	..	..	3	Erysipelas
..	..	..	..	..	..	..	..	..	..	..	..	..	..	Puerperal Fever
..	..	1	2	..	..	..	1	..	..	..	1	1	18	Acute Rheumatism
..	..	..	1	2	..	..	..	..	..	..	1	1	18	Constitutional Syphilis
..	..	..	3	..	..	1	3	..	1	..	4	2	38	Phthisis
..	..	..	..	1	..	..	..	..	..	..	2	..	5	Mesenteric Disease
..	..	..	1	..	..	..	..	..	..	..	..	..	5	Disease of Heart
..	..	3	..	..	..	..	..	..	..	..	..	2	8	Insanity
1	..	2	3	..	..	2	3	..	2	..	5	2	59	Bronchitis
..	..	2	5	6	1	..	3	1	1	..	2	3	34	Influenza and Catarrh
..	..	..	..	..	..	..	..	..	..	..	..	..	..	Pleurisy
..	..	1	..	..	..	..	..	..	..	..	..	..	1	Pneumonia
..	..	..	4	2	..	3	1	2	4	..	1	..	27	Dyspepsia
..	..	..	..	..	..	1	..	..	1	..	..	..	5	Kidney Disease
..	..	..	5	1	..	..	..	..	..	..	..	..	8	Neuralgic Affections
..	..	..	..	..	..	..	..	..	..	..	..	..	..	Carbuncle
..	..	..	..	1	..	2	..	..	..	..	..	..	7	Ophthalmia
8	.	3	30	4	5	3	5	2	*11	3	49	5	246	Accidents and diseases not classified
10	..	14	62	20	6	17	19	6	26	3	79	16	567	Total

* Very healthy; 26 cases, compared with 44 corresponding week last year.

METEOROLOGICAL OBSERVATIONS, TAKEN AT MANCHESTER,

For the Week ending August 18, 1860.

Barometer.

INS.

Mean @ 32° F. .....
Highest ..... Unreduced
Lowest .....
Range .....

Temperature.

Adopted Mean .....
Range for Week .....
Daily Range.....
Maximum in Shade.....
Minimum in Shade .....
Maximum in Sun.....
Maximum in Sun: Black bulb in Vacuo ..
Minimum on Grass .....
Temperature in Ground at surface.....
Temperature 6 inches below .....
Temperature 12 inches below .....
Temperature of Evaporation .....
Temperature of Dew Point .....
Temperature of Air—Dew Point .....

Hygrometrical condition of the Atmosphere.

GRS.

Weight of Vapour in a cubic foot of Air ..
Required to Saturate do.....
Weight of a cubic foot of Air.....

Degree of Humidity (Saturation—)..

INS.

Water in a vertical column of the Atmosphere
Elastic force of Vapour .....
Clouds (Covered Clear—) .....

Prevailing Winds .....
Rain .....
Days on which it fell .....

Ozonometer.

Moffat .....(—)
Schonbein ... .(—)

INS.

Daily Evaporation ....
Weekly Evaporation .....

The Committee regret they cannot obtain this return during the temporary absence of Mr. Vernon.

Medical Officers to whom the Association is indebted for the annexed Returns.

(1) Mr.
(2) ,, T. W. DYSON,
(3) ,, JOHN ARMSTRONG,
(4) ,, J. O. FLETCHER,
(5) ,, C. S. BOMPAS,
(6) ,, EVAN THOMAS,
(7) ,, J. BROADBENT,
(8) ,, M. ROWLAND DAY,
(9) Dr. WM. ROBERTS,
(10) Dr. JOHN KITCHING,
(11) Dr. JOHN MEDD,
(12) Mr. J. S. DAVIES,
(13) ,, H. RUNCORN,
(14)
(15) Dr. GUMPERT,
(16) Mr. W. GOLLAND,
(17) ,, J. TEALE,
(18) ,,
(19) ,, T. F. BROWNBILL,
(20) Mr. J. O. BRADBURY,
(21) ,, W. B. STOTT,
(22) ,, T. G. RICHMOND,
(23) Dr. ALEX. WILSON,
(24) Mr. H. M. WILLIAMSON,
(25) ,, W. B. MIDWOOD,
(26) ,, E. HALLEY,
(27) ,, J. M. KIRKMAN.
(28) ,, R. C. SMITH,
(29) ,, GEO. GREAVES.

☞ Copies of the "Weekly Return" will be regularly forwarded to all Public Institutions from which information is received, also to such public officers as are willing to assist the objects of the compilation. They will also be supplied to the Subscribers upon application at the Committee Rooms of the Association.

Contributors are requested to forward their communications by the Monday in the week following that to which they relate.

The Committee would also be glad to receive any other information respecting the Health of the several districts.

Powlson and Sons, Printers, Bow Street, John Dalton Street, Manchester.

HEALTH AND METEOROLOGY OF MANCHESTER.

COMMUNICATED TO THE

Manchester and Salford Sanitary Association.

WEEKLY RETURN.

Vol. I.] WEEK ENDING SATURDAY, AUGUST 25, 1860. [No. 4.

The Tables of Disease now published include all the new cases of Disease coming under treatment, each week, in the various Medical Institutions of Manchester and Salford.

The list of diseases is similar to that which has already proved useful to the Medical Officers of Health in London, and has been selected so as to make the labour of contributing as light as possible. The selection might probably be improved, and the Committee will be glad to receive any suggestions from those interested in the subject.

These returns will afford a means of comparing the relative unhealthiness of the several districts of Manchester and Salford, and will thus serve to direct Sanitary and benevolent exertions; they will give plain and timely warning of the rise and progress of the various epidemics of Fever, Cholera, &c., so that preventive measures may be applied at their outset, when most likely to be effective. They will prove a most valuable series of Medical Statistics, from which conclusions may be drawn respecting the causes of disease, the laws of epidemics, and their relation to atmospheric changes, to seasons of plenty and scarcity, and many other interesting questions of Medical Science.

The Committee of the Association gratefully acknowledge the liberal support they have received from nearly every one to whom they have applied for assistance, and heartily thank those gentlemen who are so freely contributing to the returns.

COMMITTEE ROOMS,
59, KING STREET, MANCHESTER.

☞ Copies of the "Weekly Return" will be regularly forwarded to all Public Institutions from which information is received, also to such public officers as are willing to assist the objects of the compilation. They will also be supplied to the Subscribers upon application at the Committee Rooms of the Association.

Contributors are requested to forward their communications by the Monday in the week following that to which they relate.

The Committee would also be glad to receive any other information respecting the Health of the several districts.

MANCHESTER AND SALF

New Cases of Disease coming under Treatment in Pauper, Ch

During the Week ending Satu

	MANCHESTER.															
Area in Statute Acres	Manchester Township 1,645															
Population in 1851	" " 198,162															
	Poor Law Districts.							Public Institutions.								
									* Royal Infirmary.					For Children		
DISEASES.	1 Deansgate.	2 Ancoats.	3 St. George's.	4 Market Street.	5 St. Jude's.	6 St. Michael's.	Total of Districts.	7 Workhouse.	8 In-patients.	9 Out-patients.	10 District I.	11 District II.	12 District III.	13 St. Mary's Hospital.	14 General Hospital.	15 Clinical Hospital.
Small-pox	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Chicken-pox	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Measles	..	..	1	2	..	1	4	..	..	..	..	..	..	..	..	..
Scarlatina	..	..	1	..	..	..	1	..	..	..	..	.	..	..	..	..
Diphtheria	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Whooping-cough	..	..	..	1	..	..	1	..	..	1	..	..	..	..	..	..
Croup	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..
Diarrhœa	..	2	..	..	..	1	3	4	1	6	..	..	..	14	..	..
Dysentery	..	..	..	..	..	..	..	..	..	1	..	..	..	1	..	..
Cholera	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Continued Fever	..	..	..	..	..	..	..	..	..	..	2	1	..	..	..	..
Erysipelas	..	..	..	..	..	..	..	..	..	..	..	..	1	1	..	..
Puerperal Fever.....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Acute Rheumatism	..	..	..	..	1	..	1	..	1	15	2	1	..	..	..	..
Constitutional Syphilis	..	..	..	..	..	..	..	6	..	3	..	2	2	..	..	..
Phthisis	..	..	1	..	..	..	1	2	..	10	2	3	1	..	..	..
Mesenteric Disease	..	1	..	..	..	..	1	..	..	..	..	..	..	1	..	..
Disease of Heart	..	..	..	..	..	..	..	1	..	1	..	1	..	..	..	..
Insanity	..	..	1	..	..	..	1	2	..	..	..	..	..	..	..	..
Bronchitis	..	1	1	3	1	..	6	8	..	21	5	2	1	10	..	..
Influenza and Catarrh	..	..	..	2	..	1	3	1	..	3	..	1	..	..	..	..
Pleurisy	..	..	..	1	..	..	1	1	..	..	..	..	..	..	..	..
Pneumonia.....	..	1	..	..	..	..	1	1	..	..	..	..	..	..	..	..
Dyspepsia	..	1	..	1	..	..	2	..	2	20	..	1	..	1	..	..
Kidney Disease	..	..	1	..	..	..	1	..	..	..	..	..	..	..	..	..
Neuralgic Affections	..	..	..	..	..	..	..	..	..	2	..	..	..	1	..	..
Carbuncle	..	..	..	1	.	..	1	2	..	..	..	..	..	..	..	..
Ophthalmia.....	..	..	..	1	..	..	1	2	..	..	..	..	..	2	..	..
Accidents and diseases not classified	..	3	1	1	8	8	21	44	33	203	5	4	4	23	..	..
Total.....	‖..	9	7	13	10	11	50	74	37	286	16	16	9	55	‖..	‖..

* The previous returns of the Royal Infirmary have not been complete.

‖ Returns not received or received too late for publication.

ANITARY ASSOCIATION.

d Public Institutions of Manchester and adjoining Districts,

5th day of August, 1860.

SALFORD.					HULME.			CHORLTON.		ARDWICK				
.....1,329.....					.... 477.....			.. 646...		508	....	....	.....	Area in Statute Acres.
..... 63,851.					.. 53,470. ..			.. 35,546..		16180	....	....	.....	Population in 1851.
POOR LAW DISTRICTS		PUBLIC INSTITUTIONS.			POOR LAW DISTRICTS.									
17 Greengate.	18 Regent Road.	19 Workhouse.	20 Dispensary.	21 New Bailey	22 St. George's.	23 Medlock.	24 St. Philip's	25 Poor Law District.	26 Dispensary.	27 Poor Law District.	28 Ardwick & Ancoats Dispensary.	29 Chorlton Union Workhouse.	Total.	DISEASES.
..	..	..	..	..	..	..	..	..	..	..	..	..	..	Small-pox
..	..	..	..	..	..	..	..	..	..	..	..	..	..	Chicken-pox
2	..	..	1	..	..	..	..	..	..	..	..	..	7	Measles
..	..	..	..	..	..	..	..	..	† 2	..	..	..	3	Scarlatina
..	..	..	..	.	..	..	..	..	..	..	..	..	..	Diphtheria
..	..	..	..	..	..	..	..	..	..	..	1	..	3	Whooping-cough
..	..	..	..	..	1	..	..	..	..	..	..	..	2	Croup
1	..	2	1	2	..	1	4	..	7	..	3	..	50	Diarrhœa
..	..	..	..	..	..	..	..	..	2	..	..	..	4	Dysentery
..	..	..	..	..	..	..	..	..	..	..	..	..	..	Cholera
1	1	1	1	..	..	..	1	..	2	..	..	..	11	Continued Fever
..	..	..	..	..	..	..	..	..	..	..	..	..	2	Erysipelas
..	..	..	..	..	..	..	..	..	..	..	..	..	..	Puerperal Fever
1	..	..	1	..	..	..	..	..	..	..	4	..	26	Acute Rheumatism
..	1	..	1	2	..	..	1	1	..	..	1	..	21	Constitutional Syphilis
..	..	..	2	..	2	2	..	..	1	..	3	..	29	Phthisis
..	..	..	..	1	..	..	..	..	..	..	1	..	3	Mesenteric Disease
..	..	..	..	..	..	..	..	..	..	..	..	§ 1	4	Disease of Heart
..	..	1	..	..	..	..	..	1	..	..	..	1	6	Insanity
1	2	1	7	..	..	1	1	..	3	..	3	..	72	Bronchitis
..	..	3	4	5	..	..	2	..	1	..	..	2	26	Influenza and Catarrh
..	..	..	1	..	..	..	..	..	..	..	..	..	3	Pleurisy
..	..	..	1	..	..	..	..	..	..	..	1	..	4	Pneumonia
..	..	..	7	..	..	1	1	..	3	..	1	..	39	Dyspepsia
..	1	..	..	..	..	1	..	..	..	..	1	..	5	Kidney Disease
..	..	..	2	1	..	..	..	..	..	..	..	..	6	Neuralgic Affections
..	..	..	..	..	..	..	1	..	1	..	..	1	6	Carbuncle
..	..	..	..	1	..	..	..	..	..	..	..	..	6	Ophthalmia
2	4	5	39	15	4	2	5	2	12	1	‡ 61	6	495	Accidents and diseases not classified
8	9	13	68	26	7	8	16	4	34	1	80	11	833	Total

† The first cases of Scarlatina treated by the Dispensary Surgeons this year; both in Hope street. § After Scarlatina.

‡ Two cases Lead Poisoning; one from working in a Floor Cloth Manufactory, the other in a Paint Shop.

METEOROLOGICAL OBSERVATIONS, TAKEN AT SALE, NEAR MANCHESTER,

For the Week ending August 25, 1860.

Barometer.

		INS.
Mean	Unreduced	29·667
Highest	Unreduced	29·910
Lowest	Unreduced	29·490
Range		0·420

Temperature.

Adopted Mean	55·96
Range for Week	26·4
Daily Range	15·9
Maximum in Shade	70·6
Minimum in Shade	44·3
Maximum in Sun	85·1
Maximum in Sun: Black bulb in Vacuo	..
Minimum on Grass	43·2
Temperature in Ground at surface	56·2
Temperature 6 inches below	56·2
Temperature 12 inches below	57·6
Temperature of Evaporation	50·7
Temperature of Dew Point	..
Temperature of Air—Dew Point	..

Hygrometrical condition of the Atmosphere.

	GRS.
Weight of Vapour in a cubic foot of Air	
Required to Saturate do.	
Weight of a cubic foot of Air	
Degree of Humidity (Saturation—)	

	INS.
Water in a vertical column of the Atmosphere	
Elastic force of Vapour	
Clouds (Covered Clear—)	

Prevailing Winds	N.W. & S.W.
Rain	1·27
Days on which it fell	7

Ozonometer.

Moffat	(—)
Schonbein	(—)

	INS.
Daily Evaporation	
Weekly Evaporation	

The Committee regret they cannot obtain the usual return for Manchester, during the temporary absence of Mr. Vernon; but Mr. Curtis has kindly communicated the above, taken at Sale, about six miles from Manchester,—his absence also prevents its being complete.

Medical Officers to whom the Association is indebted for the annexed Returns.

(1) Mr.
(2) ,, T. W. DYSON,
(3) ,, JOHN ARMSTRONG,
(4) ,, J. O. FLETCHER,
(5) ,, C. S. BOMPAS,
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Powlson and Sons, Printers, Bow Street, John Dalton Street, Manchester.

HEALTH AND METEOROLOGY OF MANCHESTER.

COMMUNICATED TO THE

Manchester and Salford Sanitary Association.

WEEKLY RETURN.

Vol. I.] WEEK ENDING SATURDAY, SEPTEMBER 1, 1860. [No. 5.

The Tables of Disease now published include all the new cases of Disease coming under treatment, each week, in the various Medical Institutions of Manchester and Salford.

The list of diseases is similar to that which has already proved useful to the Medical Officers of Health in London, and has been selected so as to make the labour of contributing as light as possible. The selection might probably be improved, and the Committee will be glad to receive any suggestions from those interested in the subject.

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The Committee of the Association gratefully acknowledge the liberal support they have received from nearly every one to whom they have applied for assistance, and heartily thank those gentlemen who are so freely contributing to the returns.

N.B. Continued Fever.—Owing to the difficulty of determining the exact nature of Fevers at the outset, *all* cases showing feverish symptoms may be reported under this heading, excluding as far as possible simple colds.

Acute Rheumatism.—Many cases of Chronic Rheumatism having been reported under this heading, it is requested that all contributors will uniformly adopt the same rule by continuing the practice. The term "acute" will be omitted in future returns.

COMMITTEE ROOMS,
59, KING STREET, MANCHESTER.

MANCHESTER AND SALFO

New Cases of Disease coming under Treatment in Pauper, Cha

During the Week ending Saturd

	MANCHESTER.																
Area in Statute Acres	Manchester Township 1,645																
Population in 1851	" " 198,162																
	Poor Law Districts.							Public Institutions.									
									Royal Infirmary.					For Children			
DISEASES.	1 Deansgate.	2 Ancoats.	3 St. George's.	4 Market Street.	5 St. Jude's.	6 St. Michael's.	Total of Districts.	7 Workhouse.	8 In-patients.	9 Out-patients.	10 District I.	11 District II.	12 District III.	13 St. Mary's Hospital.	14 General Hospital.	15 Clinical Hospital.	16 City Gaol.
Small-pox	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Chicken-pox	..	..	..	..	..	1	1	..	..	..	..	..	..	..	..	..	..
Measles	..	..	..	..	..	2	2	..	..	..	..	..	..	..	..	..	..
Scarlatina	..	..	..	..	..	..	..	..	..	..	..	2	..	..	..	..	..
Diphtheria	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..
Whooping-cough	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Croup	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Diarrhœa	..	..	1	3	1	3	8	..	..	8	2	4	..	19	..	17	..
Dysentery	..	..	..	1	..	..	1	1	..	..	..	..	..	1	..	2	..
Cholera	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Continued Fever	..	..	2	2	..	..	4	..	..	..	2	..	1	4	..	..	2
Erysipelas	..	..	.	..	..	1	1	..	..	..	..	2	..	..	..	..	..
Puerperal Fever	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Rheumatism	..	..	1	..	..	..	1	..	1	..	..	..	1	..	..	..	..
Constitutional Syphilis	..	..	1	..	..	..	1	1	..	5	..	..	..	1	..	3	..
Phthisis	..	..	1	..	..	..	1	..	..	16	1	7	..	..	..	..	..
Mesenteric Disease	..	..	..	1	..	..	1	2	..	..	..	1	..	1	..	..	..
Disease of Heart	..	..	1	..	..	..	1	..	..	6	..	..	1	..	..	..	..
Insanity	..	..	..	..	..	..	..	2	..	..	..	..	..	..	..	..	..
Bronchitis	..	..	4	2	..	3	9	6	1	45	1	10	..	5	..	..	..
Influenza and Catarrh	..	..	..	..	4	..	4	1	..	1	..	1	..	..	..	..	..
Pleurisy	..	..	..	..	..	..	..	..	..	1	..	1	..	..	..	..	..
Pneumonia	..	..	..	..	..	..	..	..	..	..	1	..	..	1	..	..	..
Dyspepsia	..	..	..	1	1	..	2	2	..	18	..	2	..	3	..	..	..
Kidney Disease	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..
Neuralgic Affections	..	..	..	..	..	..	..	1	..	1	..	..	..	..	..	1	..
Carbuncle	..	1	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..
Ophthalmia	..	..	..	..	..	1	1	..	..	..	..	..	..	2	..	1	..
Accidents and diseases not classified	..	3	1	4	6	3	17	32	35	231	5	3	1	31	..	7	
Total	‖..	4	12	14	12	14	56	49	37	332	12	33	4	68	‖..	32	

‖ Returns not received or received too late for publication.

NITARY ASSOCIATION.

Public Institutions of Manchester and adjoining Districts,

day of September, 1860.

SALFORD.					HULME.			CHORLTON.		ARDWICK				
.....1,329.....					.... 477....			.. 646..		508	....	...	.....	Area in Statute Acres.
..... 63,851.					.. 53,470. ..			.. 35,546..		16180	....	....	.....	Population in 1851.
Poor Law Districts		Public Institutions.			Poor Law Districts.									
17 Greengate.	18 Regent Road.	19 Workhouse.	20 Dispensary.	21 New Bailey	22 St. George's.	23 Medlock.	24 St. Philip's	25 Poor Law District.	26 Dispensary.	27 Poor Law District.	28 Ardwick & Ancoats Dispensary.	29 Chorlton Union Workhouse.	Total.	DISEASES.
..	..	..	..	..	..	..	..	..	..	..	..	..	..	Small-pox
..	..	..	..	..	..	..	..	..	..	..	..	..	1	Chicken-pox
..	..	..	..	..	..	..	1	..	..	..	1	..	4	Measles
..	..	..	..	..	..	..	..	..	1	..	2	..	5	Scarlatina
..	..	..	..	.	..	..	..	..	..	..	..	..	1	Diphtheria
..	..	..	..	..	..	..	..	..	..	..	..	..	..	Whooping-cough
..	..	..	..	..	..	..	1	..	..	..	..	..	1	Croup
2	1	..	5	10	3	1	3	..	4	..	6	2	95	Diarrhœa
..	1	..	2	..	..	..	..	..	..	..	..	1	9	Dysentery
..	..	..	..	..	..	..	..	..	..	..	..	..	..	Cholera
..	..	..	..	..	..	..	3	1	2	..	2	..	21	Continued Fever
..	..	..	..	..	..	..	..	..	..	..	..	..	3	Erysipelas
..	..	..	..	..	..	..	..	..	..	..	..	..	..	Puerperal Fever
..	..	..	4	..	2	..	..	1	..	..	3	..	13	Rheumatism
..	..	..	..	2	..	..	..	..	2	..	2	..	17	Constitutional Syphilis
1	..	1	2	..	..	2	..	..	2	..	4	..	37	Phthisis
..	..	..	..	..	..	..	..	..	..	..	2	..	7	Mesenteric Disease
..	..	..	2	..	..	..	..	..	..	..	..	..	10	Disease of Heart
..	1	3	..	..	..	..	..	..	..	1	..	3	10	Insanity
2	..	3	9	..	2	..	3	..	4	3	2	1	106	Bronchitis
..	..	..	3	4	..	..	..	..	1	..	1	3	19	Influenza and Catarrh
..	..	..	..	1	..	..	..	..	..	..	2	..	5	Pleurisy
..	..	1	..	..	..	..	..	1	..	..	..	1	5	Pneumonia
..	..	..	4	3	1	..	1	..	4	..	..	..	40	Dyspepsia
..	..	..	..	1	..	..	..	..	..	..	..	1	3	Kidney Disease
..	..	..	1	1	..	..	..	..	2	..	..	..	7	Neuralgic Affections
..	..	..	..	..	..	..	..	..	..	..	..	..	1	Carbuncle
..	..	..	..	..	..	..	..	..	..	..	1	1	6	Ophthalmia
3	1	7	39	25	3	6	8	2	11	5	48	2	527	Accidents and diseases not classified
8	4	15	71	47	11	9	20	5	33	9	76	15	953	Total

METEOROLOGICAL OBSERVATIONS, TAKEN AT MANCHESTER,

For the Week ending September 1, 1860.

Barometer.

		INS.
Mean @ 32° F		29·389
Highest	Unreduced	29·797
Lowest	Unreduced	29·038
Range		0·759

Temperature.

Adopted Mean	54·8
Range for Week	25·2
Daily Range	15·2
Maximum in Shade	67·2
Minimum in Shade	42·0
Maximum in Sun	89·2
Maximum in Sun: Black bulb in Vacuo	102·8
Minimum on Grass	39·5
Temperature in Ground at surface	52·18
Temperature 6 inches below	52·75
Temperature 12 inches below	54·32
Temperature of Evaporation	52·2
Temperature of Dew Point	49·7
Temperature of Air—Dew Point	5·1

Hygrometrical condition of the Atmosphere.

	GRS.
Weight of Vapour in a cubic foot of Air	4·00
Required to Saturate do.	0·86
Weight of a cubic foot of Air	528·3
Degree of Humidity (Saturation—1,000)	0·826

	INS.
Water in a vertical column of the Atmosphere	4·94
Elastic force of Vapour	0·357
Clouds (Covered 10 Clear—0)	4·0
Prevailing Winds	S. & S.W.
Rain	1·280
Days on which it fell	6

Ozonometer.

Moffat	(0—10)	5·00
Schonbein	(0—10)	3·20

	INS.
Daily Evaporation	0·073
Weekly Evaporation	0·511

The mean temperature of the week has been 3.°6 below the average of the last eleven years. The total amount of barometric oscillation for the week is 1.359 ins., and the entire week has been occupied by one depression of the barometric column. The total amount of rain fallen from January to August is about 3.0 inches above the average of forty-seven years, as given by Dr. Dalton.

G. V. VERNON, F.R.A.S.

Old Trafford, Manchester,
September 3rd, 1860.

Medical Officers to whom the Association is indebted for the annexed Returns.

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The Committee would also be glad to receive any other information respecting the Health of the several districts.

Powlson and Sons, Printers, Bow Street, John Dalton Street, Manchester.

HEALTH AND METEOROLOGY OF MANCHESTER.

COMMUNICATED TO THE

Manchester and Salford Sanitary Association.

WEEKLY RETURN.

Vol. I.] WEEK ENDING SATURDAY, SEPTEMBER 8, 1860. [No. 6.

The Tables of Disease now published include all the new cases of Disease coming under treatment, each week, in the various Medical Institutions of Manchester and Salford.

The list of diseases is similar to that which has already proved useful to the Medical Officers of Health in London, and has been selected so as to make the labour of contributing as light as possible. The selection might probably be improved, and the Committee will be glad to receive any suggestions from those interested in the subject.

These returns will afford a means of comparing the relative unhealthiness of the several districts of Manchester and Salford, and will thus serve to direct Sanitary and benevolent exertions; they will give plain and timely warning of the rise and progress of the various epidemics of Fever, Cholera, &c., so that preventive measures may be applied at their outset, when most likely to be effective. They will prove a most valuable series of Medical Statistics, from which conclusions may be drawn respecting the causes of disease, the laws of epidemics, and their relation to atmospheric changes, to seasons of plenty and scarcity, and many other interesting questions of Medical Science.

The Committee of the Association gratefully acknowledge the liberal support they have received from nearly every one to whom they have applied for assistance, and heartily thank those gentlemen who are so freely contributing to the returns.

N.B. Continued Fever.—Owing to the difficulty of determining the exact nature of Fevers at the outset, *all* cases showing feverish symptoms may be reported under this heading, excluding as far as possible simple colds.

Acute Rheumatism.—Many cases of Chronic Rheumatism having been reported under this heading, it is requested that all contributors will uniformly adopt the same rule by continuing the practice. The term "acute" will be omitted in future returns.

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COMMITTEE ROOMS,
59, KING STREET, MANCHESTER.

MANCHESTER AND SALF

New Cases of Disease coming under Treatment in Pauper, Cl

During the Week ending Satu

	MANCHESTER.															
Area in Statute Acres	Manchester Township 1,645															
Population in 1851	" " 198,162															
	Poor Law Districts.							Public Institutions.								
									Royal Infirmary.					For Children		
DISEASES.	1 Deansgate.	2 Ancoats.	3 St. George's.	4 Market Street.	5 St. Jude's.	6 St. Michael's.	Total of Districts.	7 Workhouse.	8 In-patients.	9 Out-patients.	10 District I.	11 District II.	12 District III.	13 St. Mary's Hospital.	14 General Hospital.	15 Clinical Hospital.
Small-pox	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Chicken-pox	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Measles	..	..	1	..	..	..	1	..	..	..	..	..	..	..	..	..
Scarlatina	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..
Diphtheria	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Whooping-cough	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1
Croup	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Diarrhœa	..	..	1	..	1	3	5	2	..	4	..	1	..	16	..	11
Dysentery	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	1
Cholera	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Continued Fever	..	1	..	..	..	2	3	4	..	1	4	..	..	4	..	..
Erysipelas	..	..	..	..	..	..	..	..	..	..	2	..	..	..	..	..
Puerperal Fever	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Rheumatism	..	..	..	1	..	..	1	1	3	15	1	..	..	..	..	..
Constitutional Syphilis	..	..	..	1	..	1	2	..	1	..	..	..	2	..	..	..
Phthisis	..	..	1	1	..	2	4	1	..	14	3	2	2	..	..	.
Mesenteric Disease	..	..	..	..	..	..	..	2	..	..	..	..	..	1	..	.
Disease of Heart	..	..	..	..	..	..	..	1	1	..	..	..	..	..	..	.
Insanity	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.
Bronchitis	..	2	1	2	1	..	6	6	1	34	1	5	2	10	..	
Influenza and Catarrh	..	..	..	..	6	..	6	1	..	..	..	..	..	..	..	.
Pleurisy	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.
Pneumonia	..	..	..	..	..	..	..	1	..	..	1	1	..	..	..	.
Dyspepsia	..	..	..	..	..	2	2	3	2	13	..	2	..	2	..	
Kidney Disease	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
Neuralgic Affections	..	..	..	..	..	..	..	1	..	..	..	..	..	1	..	
Carbuncle	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
Ophthalmia	..	..	..	2	..	..	2	1	..	..	..	..	..	1	..	
Accidents and diseases not classified	..	2	2	5	5	2	16	38	43	235	6	1	4	46	..	
Total	‖..	5	6	12	13	12	48	63	51	316	18	13	10	81	‖..	

‖ Returns not received or received too late for publication.

ANITARY ASSOCIATION.

d Public Institutions of Manchester and adjoining Districts,

h day of September, 1860.

SALFORD.					HULME.			CHORLTON.		ARDWICK				
1,329.					477.			646.		508				Area in Statute Acres.
63,851.					53,470.			35,546.		16180				Population in 1851.
Poor Law Districts		Public Institutions.			Poor Law Districts									
17 Greengate.	18 Regent Road.	19 Workhouse.	20 Dispensary.	21 New Bailey	22 St. George's.	23 Medlock.	24 St. Philip's	25 Poor Law District.	26 Dispensary.	27 Poor Law District.	28 Ardwick & Ancoats Dispensary.	29 Chorlton Union Workhouse.	Total.	DISEASES.
..	..	..	..	..	..	1	..	..	..	..	..	..	1	Small-pox
..	..	..	..	..	..	..	..	..	..	..	..	..	..	Chicken-pox
..	..	..	2	..	..	..	..	..	1	..	..	..	4	Measles
..	..	..	..	..	1	..	..	..	..	..	..	..	2	Scarlatina
..	..	..	..	.	..	..	..	..	..	..	..	..	..	Diphtheria
..	..	..	..	..	..	..	..	..	..	..	..	..	1	Whooping-cough
..	..	..	..	..	..	..	..	..	..	..	..	..	..	Croup
..	..	1	2	6	1	..	3	..	8	..	..	..	62	Diarrhœa
..	..	..	..	..	..	..	..	..	1	..	..	..	3	Dysentery
..	..	..	..	..	..	..	..	..	..	..	..	..	..	Cholera
..	..	..	4	..	..	2	3	1	3	..	..	..	29	Continued Fever
..	..	..	1	..	..	1	..	..	..	..	..	..	4	Erysipelas
..	..	..	..	..	..	..	..	..	..	..	..	..	..	Puerperal Fever
1	..	..	1	1	..	1	..	2	1	..	..	..	28	Rheumatism
..	..	..	1	4	..	..	1	..	2	..	..	..	14	Constitutional Syphilis
1	..	..	7	..	1	..	..	..	1	..	..	1	37	Phthisis
..	..	..	1	..	..	..	..	1	..	..	..	..	5	Mesenteric Disease
..	..	..	1	..	..	..	..	..	1	..	..	..	4	Disease of Heart
..	..	1	..	..	1	..	..	..	..	..	..	1	3	Insanity
1	..	2	9	..	..	..	1	1	3	1	..	..	88	Bronchitis
..	..	..	7	4	..	1	3	2	..	..	..	1	25	Influenza and Catarrh
..	..	..	2	..	..	1	..	..	..	..	..	..	4	Pleurisy
..	..	..	2	..	..	..	..	..	1	..	..	..	6	Pneumonia
1	..	..	6	..	..	1	..	..	3	..	..	..	38	Dyspepsia
..	..	..	2	..	..	..	..	..	1	..	..	..	3	Kidney Disease
..	..	..	3	1	..	..	..	..	2	..	..	..	9	Neuralgic Affections
..	..	..	..	..	..	..	..	1	..	..	..	..	1	Carbuncle
..	..	..	..	1	..	..	..	..	1	..	..	..	6	Ophthalmia
2	..	6	81	19	3	6	4	7	11	2	..	4	546	Accidents and diseases not classified
6	..	10	132	36	7	14	15	15	40	3	..	7	923	Total

Meteorological Observations, taken at Manchester and the neighbourhood, during the Week ending Saturday, September 8, 1860.

Old Trafford, G. V. Vernon, Esq.

Barometer.

		INS.
Mean @ 32° F.		30·081
Highest	Unreduced	30·378
Lowest	Unreduced	29·842
Range		0·536

Temperature.

Adopted Mean	55·7
Range for Week	21·6
Daily Range	11·6
Maximum in Shade	66·8
Minimum in Shade	45·2
Maximum in Sun	77·2
Maximum in Sun: Black bulb in Vacuo	87·5
Minimum on Grass	42·2
Temperature in Ground at surface	53·29
Temperature 6 inches below	53 54
Temperature 12 inches below	54·36
Temperature of Evaporation	53·1
Temperature of Dew Point	50·7
Temperature of Air—Dew Point	5·0

Hygrometrical condition of the Atmosphere.

	GRS.
Weight of Vapour in a cubic foot of Air	4·16
Required to Saturate do.	0·81
Weight of a cubic foot of Air	539·8
Degree of Humidity (Saturation—1,000)	0·841

	INS.
Water in a vertical column of the Atmosphere	5·12
Elastic force of Vapour	0·370
Clouds (Covered 10 Clear—0)	8·5

Prevailing Winds	S. W. & E.
Rain	0·154
Days on which it fell	4

Ozonometer.

Moffat	(0—10)	0·00
Schonbein	(0—10)	0·00

	INS.
Daily Evaporation	0·074
Weekly Evaporation	0·518

Sale, J. Curtis, Esq.

Barometer.

		INS.
Mean @ 32° F.		30·070
Highest	Unreduced	30·366
Lowest	Unreduced	29·834
Range		0·532

Temperature.

Adopted Mean	56·0
Range for Week	26·3
Daily Range	14·2
Maximum in Shade	68·8
Minimum in Shade	42·5
Maximum in Sun	77·8
Maximum in Sun: Black bulb in Vacuo	——
Minimum on Grass	42·5
Temperature in Ground at surface	55 61
Temperature 6 inches below	55·72
Temperature 12 inches below	56·81
Temperature of Evaporation	53·7
Temperature of Dew Point	51·5
Temperature of Air—Dew Point	4·5

Hygrometrical condition of the Atmosphere.

	GRS.
Weight of Vapour in a cubic foot of Air	4·31
Required to Saturate do.	0·69
Weight of a cubic foot of Air	538·6
Degree of Humidity (Saturation—1,000	0·852

	INS.
Water in a vertical column of the Atmosphere	5·26
Elastic force of Vapour	0·381
Clouds (Covered—10 Clear—0)	——

Prevailing Winds	S.W.& S.E.
Rain	0·110
Days on which it fell	3

Ozonometer.

Moffat	(0—10)	——
Schonbein	(0—10)	——

	INS.
Daily Evaporation	0·068
Weekly Evaporation	0·476

The total amount of barometrical oscillations for the week has been 0·931 inches, and the oscillations 4 in number. The mean temperature of the week was 1·1° below the average of the past eleven years. The character of the weather during the week has been dull but fine.

G. V. VERNON, F.R.A.S.

Old Trafford, Manchester,
September 11, 1860.

Medical Officers to whom the Association is indebted for the annexed Returns.

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HEALTH AND METEOROLOGY OF MANCHESTER.

COMMUNICATED TO THE

Manchester and Salford Sanitary Association.

WEEKLY RETURN.

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ACUTE RHEUMATISM.—Many cases of Chronic Rheumatism having been reported under this heading, it is requested that all contributors will uniformly adopt the same rule by continuing the practice. The term "acute" will be omitted in future returns.

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59, KING STREET, MANCHESTER.

MANCHESTER AND SALI

New Cases of Disease coming under Treatment in Pauper, C

During the Week ending Sat

	MANCHESTER.															
Area in Statute Acres	Manchester Township 1,645															
Population in 1851	" " 198,162															
	Poor Law Districts.							Public Institutions.								
									Royal Infirmary.					For Children		
DISEASES.	1 Deansgate.	2 Ancoats.	3 St. George's.	4 Market Street.	5 St. Jude's.	6 St. Michael's.	Total of Districts.	7 Workhouse.	8 In-patients.	9 Out-patients.	10 District I.	11 District II.	12 District III.	13 St. Mary's Hospital.	14 General Hospital.	15 Clinical Hospital.
Small-pox	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Chicken-pox	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1
Measles	..	..	1	..	..	..	1	1	..	..	..	..	..	1	..	..
Scarlatina	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Diphtheria	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Whooping-cough	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..
Croup	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Diarrhœa	..	..	..	..	..	..	..	..	..	1	..	..	..	18	..	*7
Dysentery	..	..	..	..	..	..	..	..	..	..	..	..	..	3	..	..
Cholera	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Continued Fever	..	..	2	..	..	..	2	..	2	..	1	..	..	2	..	..
Erysipelas	..	..	..	1	..	..	1	..	..	1	..	1	..	..	..	..
Puerperal Fever	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Rheumatism	..	1	..	3	..	..	4	4	..	16	..	4	2	1	..	..
Constitutional Syphilis	..	..	..	1	..	..	1	4	..	1	..	1	..	..	..	2
Phthisis	..	..	..	1	..	..	1	2	4	5	1	2	1	2	..	..
Mesenteric Disease	..	..	..	..	..	2	2	1	..	..	..	..	..	3	..	..
Disease of Heart	..	..	..	..	..	..	..	..	2	1	1	..	..	..	..	..
Insanity	..	..	..	..	..	..	..	6	..	..	..	..	..	..	..	..
Bronchitis	..	..	2	1	..	1	4	3	..	29	1	6	1	2	..	3
Influenza and Catarrh	..	..	..	3	2	1	6	3	..	3	..	..	2	1	..	..
Pleurisy	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Pneumonia	..	..	..	..	..	1	1	..	..	..	..	..	..	2	..	2
Dyspepsia	..	..	..	..	..	..	..	..	..	24	..	..	..	..	..	..
Kidney Disease	..	..	..	..	..	..	..	..	..	3	..	..	1	..	..	..
Neuralgic Affections	..	..	..	..	..	..	..	1	..	10	..	..	2	1	..	..
Carbuncle	..	..	..	1	..	..	1	..	..	..	..	..	..	..	..	..
Ophthalmia	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..
Accidents and diseases not classified	..	3	2	4	5	10	24	36	32	213	4	7	7	35	..	18
Total	‖..	4	7	15	7	15	48	61	40	307	8	21	16	73	‖..	33

‖ Returns not received or received too late for publication.

ANITARY ASSOCIATION.

d Public Institutions of Manchester and adjoining Districts,

th day of September, 1860.

SALFORD.					HULME.			CHORLTON.		ARDWICK				
.....1,329.....					.... 477....			.. 646...		508	....	....	.....	Area in Statute Acres.
..... 63,851.					.. 53,470. ..			.. 35,546..		16180	....	....	.....	Population in 1851.
POORLAW DISTRICTS		PUBLIC INSTITUTIONS.			POOR LAW DISTRICTS.									
Greengate. 17	Regent Road. 18	Workhouse. 19	Dispensary. 20	New Bailey 21	St. George's. 22	Medlock. 23	St. Philip's 24	Poor Law District. 25	Dispensary. 26	Poor Law District. 27	Ardwick & Ancoats Dispensary. 28	Chorlton Union Workhouse. 29	Total.	DISEASES.
..	..	..	..	..	..	..	..	..	..	..	..	..	..	Small-pox
..	..	..	..	..	..	..	..	..	..	..	..	..	1	Chicken-pox
..	..	..	..	..	3	..	..	..	1	..	..	..	7	Measles
..	..	..	2	..	..	2	..	..	..	..	..	..	4	Scarlatina
..	..	..	..	.	..	..	..	..	..	..	1	..	1	Diphtheria
..	..	..	..	..	..	..	..	..	..	..	..	..	1	Whooping-cough
..	..	..	..	..	..	..	..	..	..	..	..	..	..	Croup
..	..	..	1	5	..	..	3	3	11	..	2	2	58	Diarrhœa
..	..	..	..	..	..	..	..	1	1	..	..	1	6	Dysentery
..	..	..	..	..	..	..	..	..	..	..	..	..	..	Cholera
2	..	..	4	..	..	..	2	1	..	..	1	..	17	Continued Fever
..	..	..	1	..	..	..	..	..	..	..	1	..	5	Erysipelas
..	..	..	..	..	..	1	..	..	..	..	..	..	1	Puerperal Fever
..	..	..	5	..	..	..	2	..	2	..	3	1	45	Rheumatism
..	..	..	..	..	..	..	..	..	..	..	2	..	11	Constitutional Syphilis
1	..	..	3	..	..	1	..	..	2	..	1	..	26	Phthisis
..	..	..	2	..	..	..	..	..	..	1	..	..	9	Mesenteric Disease
..	..	..	..	..	1	..	..	..	..	..	..	..	5	Disease of Heart
..	..	3	..	..	..	..	..	..	..	..	..	..	9	Insanity
..	..	2	13	..	1	..	1	1	9	1	2	..	79	Bronchitis
..	..	..	3	7	..	1	..	1	3	..	..	5	35	Influenza and Catarrh
..	..	..	2	..	..	..	..	..	..	..	..	..	2	Pleurisy
..	..	..	..	..	1	..	..	..	..	..	..	..	6	Pneumonia
..	..	..	5	1	..	..	2	..	3	..	1	..	36	Dyspepsia
..	..	..	..	..	..	..	..	..	..	..	..	..	4	Kidney Disease
..	..	..	1	..	..	..	..	1	1	1	..	..	18	Neuralgic Affections
..	..	..	..	..	..	..	..	..	..	..	..	..	1	Carbuncle
..	..	..	1	2	..	..	..	..	1	..	1	..	6	Ophthalmia
5	..	8	61	18	..	5	9	1	31	1	34	2	554	Accidents and diseases not classified
8	..	13	104	33	6	10	19	9	65	4	49	11	947	Total

* This complaint formed a complication in several others already under treatment for other forms of disease.

Meteorological Observations, taken at Manchester and the neighbourhood, during the Week ending Saturday, September 15, 1860.

Old Trafford, G. V. Vernon, Esq.

Barometer.

		INS.
Mean @ 32° F		29·820
Highest	Unreduced	30·316
Lowest	Unreduced	29·272
Range		1·044

Temperature.

Adopted Mean	49·7
Range for Week	33·7
Daily Range	19·2
Maximum in Shade	66·0
Minimum in Shade	32·3
Maximum in Sun	82·8
Maximum in Sun: Black bulb in Vacuo	100·4
Minimum on Grass	30·2
Temperature in Ground at surface	47·83
Temperature 6 inches below	49·26
Temperature 12 inches below	51·83
Temperature of Evaporation	47·0
Temperature of Dew Point	44·0
Temperature of Air—Dew Point	5·7

Hygrometrical condition of the Atmosphere.

	GRS.
Weight of Vapour in a cubic foot of Air	3·33
Required to Saturate do.	0·74
Weight of a cubic foot of Air	542·0
Degree of Humidity (Saturation—1,000)	0·818

	INS.
Water in a vertical column of the Atmosphere	3·98
Elastic force of Vapour	0·283
Clouds (Covered 10 Clear—0)	5·3

Prevailing Winds	S. & E.
Rain	0·060
Days on which it fell	1

Ozonometer.

Moffat	(0—10)	0·57
Schonbein	(0—10)	0·28

	INS.
Daily Evaporation	0·069
Weekly Evaporation	0·483

Sale, J. Curtis, Esq.

Barometer.

		INS.
Mean @ 32° F		29·830
Highest	Unreduced	30·302
Lowest	Unreduced	29·322
Range		0·980

Temperature.

Adopted Mean	49·1
Range for Week	35·5
Daily Range	21·1
Maximum in Shade	66·5
Minimum in Shade	31·0
Maximum in Sun	74·5
Maximum in Sun: Black bulb in Vacuo	——
Minimum on Grass	30·8
Temperature in Ground at surface	49·44
Temperature 6 inches below	51·06
Temperature 12 inches below	54·14
Temperature of Evaporation	45·8
Temperature of Dew Point	42·3
Temperature of Air—Dew Point	6·8

Hygrometrical condition of the Atmosphere.

	GRS.
Weight of Vapour in a cubic foot of Air	3·05
Required to Saturate do.	0·96
Weight of a cubic foot of Air	543·1
Degree of Humidity (Saturation—1,000	0·773

	INS.
Water in a vertical column of the Atmosphere	3·73
Elastic force of Vapour	0·270
Clouds (Covered—10 Clear—0)	——

Prevailing Winds	E. & S. W.
Rain	0·080
Days on which it fell	1

Ozonometer.

Moffat	(0—10)	——
Schonbein	(0—10)	——

	INS.
Daily Evaporation	0·079
Weekly Evaporation	0·553

The amount of barometrical oscillations during the past week has been 1·393 inches, the oscillations being 5 in number. The mean temperature of the week was 6·5° below the average of the last eleven years. The range of temperature during the week has been very great. The past week was colder than any corresponding week of the last eleven years. The temperature at Sale was rather lower than at Old Trafford, and the air was somewhat drier at the former place.

G. V. VERNON, F.R.A.S.

Old Trafford, Manchester,
September 18, 1860.

Medical Officers to whom the Association is indebted for the annexed Returns.

(1) Mr.
(2) ,, T. W. DYSON,
(3) ,, JOHN ARMSTRONG,
(4) ,, J. O. FLETCHER,
(5) ,, C. S. BOMPAS,
(6) ,, EVAN THOMAS,
(7) ,, J. BROADBENT,
(8) ,, M. ROWLAND DAY,
(9) (10) (11) (12) Dr. JOHN KITCHING, Dr. JOHN MEDD, Mr. J. S. DAVIES,
(13) Mr. H. RUNCORN,
(14)
(15) Dr. GUMPERT,
(16) Mr. W. GOLLAND,
(17) ,, J. TEALE,
(18) ,, M. O. LARMUTH,
(19) ,, T. F. BROWNBILL,
(20) ,, J. O. BRADBURY,
(21) ,, W. B. STOTT,
(22) ,, T. G. RICHMOND,
(23) Dr. ALEX. WILSON,
(24) Mr. H. M. WILLIAMSON,
(25) ,, W. B. MIDWOOD,
(26) ,, E. HALLEY,
(27) ,, J. M. KIRKMAN,
(28) ,, N. PICKFORD,
(29) ,, GEO. GREAVES.

Powlson and Sons, Printers, Bow Street, John Dalton Street, Manchester.

HEALTH AND METEOROLOGY OF MANCHESTER.

COMMUNICATED TO THE

Manchester and Salford Sanitary Association.

WEEKLY RETURN.

VOL. I.] WEEK ENDING SATURDAY, SEPTEMBER 22, 1860. [No. 8.

The Tables of Disease now published include all the new cases of Disease coming under treatment, each week, in the various Medical Institutions of Manchester and Salford.

The list of diseases is similar to that which has already proved useful to the Medical Officers of Health in London, and has been selected so as to make the labour of contributing as light as possible. The selection might probably be improved, and the Committee will be glad to receive any suggestions from those interested in the subject.

These returns will afford a means of comparing the relative unhealthiness of the several districts of Manchester and Salford, and will thus serve to direct Sanitary and benevolent exertions; they will give plain and timely warning of the rise and progress of the various epidemics of Fever, Cholera, &c., so that preventive measures may be applied at their outset, when most likely to be effective. They will prove a most valuable series of Medical Statistics, from which conclusions may be drawn respecting the causes of disease, the laws of epidemics, and their relation to atmospheric changes, to seasons of plenty and scarcity, and many other interesting questions of Medical Science.

The Committee of the Association gratefully acknowledge the liberal support they have received from nearly every one to whom they have applied for assistance, and heartily thank those gentlemen who are so freely contributing to the returns.

N.B. CONTINUED FEVER.—Owing to the difficulty of determining the exact nature of Fevers at the outset, *all* cases showing feverish symptoms may be reported under this heading, excluding as far as possible simple colds.

ACUTE RHEUMATISM.—Many cases of Chronic Rheumatism having been reported under this heading, it is requested that all contributors will uniformly adopt the same rule by continuing the practice. The term "acute" will be omitted in future returns.

☞ Copies of the "Weekly Return" will be regularly forwarded to all Public Institutions from which information is received, also to such public officers as are willing to assist the objects of the compilation. They will also be supplied to the Subscribers upon application at the Committee Rooms of the Association.

Contributors are requested to forward their communications by the Monday in the week following that to which they relate.

The Committee would also be glad to receive any other information respecting the Health of the several districts.

COMMITTEE ROOMS,
59, KING STREET, MANCHESTER.

MANCHESTER AND SALF

New Cases of Disease coming under Treatment in Pauper, Ch

During the Week ending Satur

	MANCHESTER.																
Area in Statute Acres	Manchester Township 1,645																
Population in 1851	" " 198,162																
	Poor Law Districts.							Public Institutions.									
									Royal Infirmary.					For Children			
DISEASES.	1 Deansgate.	2 Ancoats.	3 St. George's.	4 Market Street.	5 St. Jude's.	6 St. Michael's.	Total of Districts.	7 Workhouse.	8 In-patients.	9 Out-patients.	10 District I.	11 District II.	12 District III.	13 St. Mary's Hospital.	14 General Hospital.	15 Clinical Hospital.	1 City Co
Small-pox	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.
Chicken-pox	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.
Measles	..	..	..	..	..	3	3	..	..	..	..	..	..	..	..	2	.
Scarlatina	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.
Diphtheria	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.
Whooping-cough	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.
Croup	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.
Diarrhœa	..	2	1	1	..	2	6	1	..	2	..	2	..	17	..	7	
Dysentery	..	..	..	1	..	..	1	..	..	1	..	..	..	..	..	..	.
Cholera	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.
Continued Fever	..	..	..	..	..	..	..	2	..	..	4	..	..	3	..	3	
Erysipelas	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.
Puerperal Fever.....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.
Rheumatism	..	..	..	1	..	..	1	3	1	10	1	3	..	..	..	..	.
Constitutional Syphilis	..	..	..	..	..	..	..	9	..	10	..	2	..	..	..	1	.
Phthisis	..	..	..	1	..	..	1	..	..	13	2	2	1	2	..	..	.
Mesenteric Disease	..	..	..	..	..	1	1	..	..	1	..	2	..	1	..	..	.
Disease of Heart	..	..	..	..	..	..	..	..	1	3	..	..	..	..	..	..	.
Insanity	..	..	..	..	..	..	..	2	..	..	..	..	..	..	..	..	.
Bronchitis	..	..	2	1	..	3	6	4	1	42	7	7	..	7	..	4	.
Influenza and Catarrh	..	..	1	..	..	1	2	2	..	10	..	..	1	1	..	..	.
Pleurisy	..	..	..	1	..	..	1	..	..	..	..	..	..	..	..	..	.
Pneumonia.....	..	..	..	..	..	..	..	1	..	..	..	2	1	..	..	4	.
Dyspepsia	..	..	..	..	..	..	..	4	..	33	..	1	1	1	..	1	
Kidney Disease	..	..	..	..	..	..	..	..	..	2	..	..	..	..	..	..	.
Neuralgic Affections	..	..	..	..	..	..	..	..	..	2	..	..	..	1	..	..	.
Carbuncle	..	..	..	1	..	..	1	..	..	..	..	..	..	..	..	..	.
Ophthalmia.....	..	..	..	..	..	..	..	1	..	..	..	..	..	1	..	..	.
Accidents and diseases not classified	..	3	10	3	..	6	22	37	33	180	6	7	5	22	..	8	
Total.....	‖..	5	14	10	‖..	16	45	66	36	309	20	28	9	56	‖..	30	

‖Returns not received or received too late for publication.

NITARY ASSOCIATION.

Public Institutions of Manchester and adjoining Districts,

day of September, 1860.

SALFORD.				HULME.			CHORLTON.		ARDWICK				
...1,329.....				.... 477.....			.. 646...		508	....	....	.....	Area in Statute Acres.
. 63,851.				.. 53,470. ..			.. 35,546..		16180	...	....	....	Population in 1851.
LAW ICTS	PUBLIC INSTITUTIONS.			POOR LAW DISTRICTS.									
Regent Road. 18	Workhouse. 19	Dispensary. 20	New Bailey 21	St. George's. 22	Medlock. 23	St. Philip's 24	Poor Law District. 25	Dispensary. 26	Poor Law District. 27	Ardwick & Ancoats Dispensary. 28	Chorlton Union Workhouse. 29	Total	DISEASES.
..	..	..	..	..	..	..	..	..	..	..	..	..	Small-pox
..	..	..	..	..	..	..	..	..	..	..	..	..	Chicken-pox
..	..	..	..	..	..	..	1	1	..	..	..	7	Measles
..	..	1	..	..	..	..	..	..	..	..	..	1	Scarlatina
..	..	..	.	..	..	..	..	..	..	1	..	1	Diphtheria
..	..	1	..	..	..	..	..	..	..	..	..	1	Whooping-cough
..	..	..	..	..	..	..	..	..	..	..	..	..	Croup
..	1	1	2	..	1	2	..	6	..	1	..	52	Diarrhœa
..	..	..	..	..	..	..	..	1	..	1	..	4	Dysentery
..	..	..	..	..	..	..	..	..	..	..	..	..	Cholera
..	..	3	1	1	..	6	..	4	1	2	..	32	Continued Fever
..	..	..	..	..	..	..	..	..	1	..	..	1	Erysipelas
..	..	..	..	..	..	..	..	..	..	..	..	..	Puerperal Fever
..	1	4	3	..	2	1	2	..	..	2	..	35	Rheumatism
..	..	1	..	..	..	..	1	1	..	2	2	29	Constitutional Syphilis
..	..	4	..	..	..	..	..	3	..	1	3	32	Phthisis
.	..	..	..	..	..	..	..	..	..	1	2	8	Mesenteric Disease
.	..	1	..	..	..	..	..	..	..	..	..	6	Disease of Heart
.	3	..	..	..	..	..	..	..	*1	..	8	15	Insanity
.	..	10	1	1	..	3	1	4	..	15	1	114	Bronchitis
.	4	2	7	..	..	..	..	1	..	1	3	34	Influenza and Catarrh
.	..	..	..	..	..	..	..	..	..	..	..	1	Pleurisy
.	..	..	..	..	..	..	..	1	..	1	..	10	Pneumonia
.	..	6	..	..	3	..	..	6	..	3	2	63	Dyspepsia
.	1	1	..	..	..	..	..	..	..	..	..	4	Kidney Disease
.	..	..	..	1	..	..	..	..	..	..	..	4	Neuralgic Affections
.	..	..	..	..	..	..	..	..	..	..	..	1	Carbuncle
.	..	..	1	..	..	..	..	..	..	..	1	4	Ophthalmia
	3	68	17	8	9	2	4	39	2	50	..	534	Accidents and diseases not classified
	13	103	32	11	15	14	9	67	5	81	22	993	Total

Medical Officers to whom the Association is indebted for the annexed Returns.

(1) Mr. T. W. DYSON,
(2) " JOHN ARMSTRONG,
(3) " J. O. FLETCHER,
(4) " C. S. BOMPAS,
(5) " EVAN THOMAS,
(6) " Mr. J. BROADBENT,
(7) " M. ROWLAND DAY,
(8) Dr. JOHN KITCHING,
(9) Dr. JOHN MEDD,
(10) Mr. J. S. DAVIES,
(11) Mr. H. RUNCORN,
(12) (13) Dr. WHITEHEAD,
(14) Mr. W. GOLLAND,
(15) " J. TEALE,
(16) Mr. M. O. LARMUTH,
(17) " T. F. BROWNBILL,
(18) " J. O. BRADBURY,
(19) " W. B. STOTT,
(20) " T. G. RICHMOND,
(21) Dr. ALEX. WILSON,
(22) Mr. H. M. WILLIAMSON,
(23) " W. B. MIDWOOD,
(24) " E. HALLEY,
(25) " J. M. KIRKMAN,
(26) " N. PICKFORD,
(27) " GEO. GREAVES.
(28)
(29)

* From Epilepsy.

Meteorological Observations, taken at Manchester and the neighbourhood, during the Week ending Saturday, September 22, 1860.

Old Trafford, G. V. Vernon, Esq.

Barometer.

		INS.
Mean @ 32° F		29·511
Highest	Unreduced	29·858
Lowest	Unreduced	29·380
Range		0·478

Temperature.

Adopted Mean	53·5
Range for Week	24·7
Daily Range	13·3
Maximum in Shade	65 7
Minimum in Shade	41 0
Maximum in Sun	87·0
Maximum in Sun: Black bulb in Vacuo	98·5
Minimum on Grass	38·5
Temperature in Ground at surface	51·56
Temperature 6 inches below	51 89
Temperature 12 inches below	53 09
Temperature of Evaporation	51·4
Temperature of Dew Point	49·4
Temperature of Air—Dew Point	4·1

Hygrometrical condition of the Atmosphere.

	GRS.
Weight of Vapour in a cubic foot of Air	3·97
Required to Saturate do.	0 63
Weight of a cubic foot of Air	532·0
Degree of Humidity (Saturation—1,000)	0·858

	INS.
Water in a vertical column of the Atmosphere	4 88
Elastic force of Vapour	0·353
Clouds (Covered 10 Clear—0)	7·8

Prevailing Winds	S. W. & W.
Rain	1·387
Days on which it fell	6

Ozonometer.

Moffat (0—10)	0·14
Schonbein (0—10)	0·00

	INS.
Daily Evaporation	0·057
Weekly Evaporation	0·399

Sale, J. Curtis, Esq.

Barometer.

		INS.
Mean @ 32° F		29·503
Highest	Unreduced	29 866
Lowest	Unreduced	29·414
Range		0·452

Temperature.

Adopted Mean	53·7
Range for Week	27·0
Daily Range	17·0
Maximum in Shade	64·8
Minimum in Shade	37·8
Maximum in Sun	83·0
Maximum in Sun: Black bulb in Vacuo	——
Minimum on Grass	37·6
Temperature in Ground at surface	53·44
Temperature 6 inches below	54·04
Temperature 12 inches below	55 10
Temperature of Evaporation	51·2
Temperature of Dew Point	48·8
Temperature of Air—Dew Point	4·9

Hygrometrical condition of the Atmosphere.

	GRS.
Weight of Vapour in a cubic foot of Air	3·89
Required to Saturate do.	0·75
Weight of a cubic foot of Air	531·7
Degree of Humidity (Saturation—1,000	0·832

	INS.
Water in a vertical column of the Atmosphere	4·77
Elastic force of Vapour	0·345
Clouds (Covered—10 Clear—0)	——

Prevailing Winds	S. W.
Rain	1·150
Days on which it fell	5

Ozonometer.

Moffat (0—10)	——
Schonbein (0—10)	——

	INS.
Daily Evaporation	0·068
Weekly Evaporation	0·476

The total oscillation of the barometer during the week was 1·435 inches, the oscillations being 9 in number. There were two very marked depressions of temperature during the week; one upon the 18th, when the temperature at 8 a.m. was 14·6° below the temperature at the same hour upon the 17th; the other, a depression of 3·6° upon the 21st, followed by a rise of 10·4° upon the 22nd. The mean temperature of the week was 1·2° below the average of the last eleven years.

The temperature at the two stations was almost identical, but the fall of rain, and general quantity of moisture, was somewhat less at Sale.

G. V. VERNON, F.R.A.S.

Old Trafford, Manchester,
September 25, 1860.

Powlson and Sons, Printers, Bow Street, John Dalton Street, Manchester.

HEALTH AND METEOROLOGY OF MANCHESTER.

COMMUNICATED TO THE

Manchester and Salford Sanitary Association.

WEEKLY RETURN.

Vol. I.] WEEK ENDING SATURDAY, SEPTEMBER 29, 1860. [No. 9.

Early in the year 1858, the Committee of the Association appointed a Sub-Committee for the purpose of ascertaining the importance of Atmospheric changes as a cause of Disease, and of considering how far danger to life from this source may be avoided. The investigation extended over a period of nearly two years, and the Committee deem this a favourable opportunity for giving publicity to the report of the Sub-Committee in a condensed form.

REPORT, &c. &c.

Apparent Effect of Atmospheric Changes upon Health, &c.

In commencing their task your Sub-Committee first endeavoured to draw up a plan upon which they could carry out their investigations, so as to trace as clearly as possible the effects of Atmospheric changes upon health, and it appeared desirable to divide the subject into two branches.

1st.—The effect of certain states of the air upon the production and propagation of *Disease*.

2nd.—The connection that could be traced between these Atmospheric conditions and the *Mortality*.

To pursue this investigation efficiently they considered that it would be necessary *first*, to compare meteorological returns with records of concurrent attacks of disease, and, *second*, to compare them with returns of mortality, and as no record of diseases in this district could be discovered, your Sub-Committee adopted the returns published under the authority of the London Board of Health, and from which they made a selection for investigation. The following is the result of their enquiries :—

DIARRHŒA.

A high mean temperature (above 60°) would seem to have a powerful influence in predisposing to this disease ; when continuous, causing a rapid increase in the number of cases.

A temperature below 60° appears to be unfavourable to its progress. These effects are most evident when the temperature is above or below the average of the season.

[*To be continued.*]

COMMITTEE ROOMS,
59, KING STREET, MANCHESTER.

MANCHESTER AND SALF

New Cases of Disease coming under Treatment in Pauper, C

During the Week ending Sat

MANCHESTER.

Area in Statute Acres .... Manchester Township 1,645
Population in 1851 .... " " 198,162

DISEASES.	Poor Law Districts.							Public Institutions.								
									Royal Infirmary.					For Children		
	1 Deansgate.	2 Ancoats.	3 St. George's.	4 Market Street.	5 St. Jude's.	6 St. Michael's.	Total of Districts.	7 Workhouse.	8 In-patients.	9 Out-patients.	10 District I.	11 District II.	12 District III.	13 St. Mary's Hospital.	14 General Hospital.	15 Clinical Hospital.
Small-pox	..	..	1	..	..	..	1	1	..	..	1	..	..	..	..	..
Chicken-pox	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1
Measles	..	..	..	..	..	1	1	..	..	2	..	..	..	..	..	..
Scarlatina	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Diphtheria	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Whooping-cough	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..
Croup	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Diarrhœa	..	..	1	..	1	4	6	1	..	1	..	1	..	6	..	5
Dysentery	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..
Cholera	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Continued Fever	..	..	..	..	..	..	..	1	1	2	2	..	..	3	..	..
Erysipelas	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Puerperal Fever	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Rheumatism	..	..	..	..	..	..	..	..	2	13	..	..	..	..	..	..
Constitutional Syphilis	..	..	..	..	..	..	..	1	..	6	..	1	1	1	..	1
Phthisis	..	1	..	..	..	..	1	3	..	5	..	2	3	..	..	2
Mesenteric Disease	..	..	..	..	..	..	..	..	..	2	..	..	..	1	..	..
Disease of Heart	..	..	..	..	1	..	1	..	..	3	..	..	..	..	..	..
Insanity	..	..	1	1	..	..	2	1	..	..	..	..	..	..	..	..
Bronchitis	..	..	4	3	..	2	9	9	..	39	2	8	1	10	..	2
Influenza and Catarrh	..	..	1	..	3	1	5	..	..	4	..	..	..	..	..	..
Pleurisy	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Pneumonia	..	..	..	..	..	..	..	..	..	..	..	2	..	2	..	..
Dyspepsia	..	..	..	..	..	1	1	..	1	33	..	..	..	..	..	..
Kidney Disease	..	..	..	1	..	..	1	2	2	1	..	..	..	..	..	..
Neuralgic Affections	..	..	..	..	..	..	..	..	..	9	..	1	2	..	..	..
Carbuncle	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Ophthalmia	..	..	..	..	1	..	1	2	..	..	..	..	..	..	..	1
Accidents and diseases not classified	..	2	2	..	4	6	14	31	30	201	11	3	7	29	..	11
Total	‖..	3	10	5	10	15	43	52	36	321	16	18	15	53	‖..	23

‖Returns not received or received too late for publication.

NITARY ASSOCIATION.

Public Institutions of Manchester and adjoining Districts,

n day of September, 1860.

SALFORD.				HULME.			CHORL-TON.		ARD WICK				
.....1,329.....				.... 477....			.. 646..		508	....	....	.....	Area in Statute Acres.
... 63,851.				.. 53,470. ..			.. 35,546..		16180	....	....	.....	Population in 1851.
ORLAW TRICTS	PUBLIC INSTITUTIONS.			POOR LAW DISTRICTS.									
Regent Road. 18	Workhouse. 19	Dispensary. 20	New Bailey 21	St. George's. 22	Medlock. 23	St. Philip's 24	Poor Law District. 25	Dispensary. 26	Poor Law District. 27	Ardwick & Ancoats Dispensary. 28	Chorlton Union Work-house. 29	Total.	DISEASES.
..	..	..	..	..	..	..	..	..	..	..	..	3	Small-pox
..	..	..	..	..	..	..	..	..	..	..	..	1	Chicken-pox
..	..	..	..	1	..	..	..	1	..	..	..	3	Measles
..	..	2	..	1	..	..	..	1	..	..	..	4	Scarlatina
..	..	..	.	..	..	..	..	..	..	..	..	..	Diphtheria
..	..	1	..	..	..	..	..	..	..	..	..	2	Whooping-cough
..	..	..	..	..	..	..	..	..	..	..	..	..	Croup
..	3	2	4	1	1	..	1	4	..	..	1	37	Diarrhœa
..	..	3	..	..	..	1	..	1	..	1	..	7	Dysentery
..	..	..	..	..	..	..	..	..	..	..	..	..	Cholera
..	1	3	..	..	1	3	..	4	..	3	..	24	Continued Fever
..	..	..	..	..	..	..	..	..	..	..	1	1	Erysipelas
..	..	..	..	..	..	..	..	..	..	..	..	..	Puerperal Fever
2 ..	..	8	..	1	..	..	..	3	..	2	..	31	Rheumatism
1 ..	..	..	..	..	..	..	..	..	..	..	..	12	Constitutional Syphilis
..	..	1	..	..	1	..	..	1	..	1	1	21	Phthisis
..	..	..	..	..	..	..	..	..	..	..	..	3	Mesenteric Disease
..	..	2	..	..	..	..	..	..	..	2	..	8	Disease of Heart
..	1	..	..	..	1	..	..	..	..	..	4	9	Insanity
3 ..	8	9	1	..	1	..	1	12	..	10	..	126	Bronchitis
..	1	13	10	..	1	..	1	2	..	3	1	41	Influenza and Catarrh
..	..	3	..	..	..	..	..	1	..	1	..	5	Pleurisy
..	..	2	..	..	..	..	1	1	..	2	1	11	Pneumonia
1 ..	..	5	..	..	..	1	..	3	..	2	..	49	Dyspepsia
..	..	..	..	..	..	..	..	..	..	..	..	6	Kidney Disease
..	..	6	2	..	..	..	..	..	..	1	..	21	Neuralgic Affections
..	..	..	..	..	..	..	..	..	..	..	1	1	Carbuncle
..	1	..	..	..	..	..	..	..	..	..	1	6	Ophthalmia
3 ..	6	66	14	1	4	3	3	26	2	49	1	518	Accidents and diseases not classified
0 ‖ ..	21	126	31	5	10	8	7	60	2	77	12	952	Total

Medical Officers to whom the Association is indebted for the annexed Returns.

(1) Mr. T. W. DYSON,
(2) ,, JOHN ARMSTRONG,
(3) ,, J. O. FLETCHER,
(4) ,, C. S. BOMPAS,
(5) ,, EVAN THOMAS,
(6) ,, T. W. DYSON,
(7) Mr. J. BROADBENT,
(8) ,, M. ROWLAND DAY,
(9) (10) (11) (12) Dr. JOHN KITCHING, Dr. JOHN MEDD, Mr. J. S. DAVIES,
(13) Mr. H. RUNCORN,
(14) (15) Dr. WHITEHEAD,
(16) Mr. W. GOLLAND,
(17) ,, J. TEALE,
(18) Mr. M. O. LARMUTH,
(19) ,, T. F. BROWNBILL,
(20) ,, J. O. BRADBURY,
(21) ,, W. B. STOTT,
(22) ,, T. G. RICHMOND,
(23) Dr. ALEX. WILSON,
(24) Mr. H. M. WILLIAMSON,
(25) ,, W. B. MIDWOOD,
(26) ,, E. HALLEY,
(27) ,, J. M. KIRKMAN,
(28) ,, N. PICKFORD,
(29) ,, GEO. GREAVES.

Meteorological Observations, taken at Manchester and the neighbourhood, during the Week ending Saturday, September 29, 1860.

Old Trafford, G. V. Vernon, Esq.

Barometer.

		INS.
Mean @ 32° F		29·684
Highest	Unreduced	29·998
Lowest	Unreduced	29·492
Range		0·506

Temperature.

Adopted Mean	48·0
Range for Week	28·9
Daily Range	19·8
Maximum in Shade	63·2
Minimum in Shade	34·3
Maximum in Sun	83·0
Maximum in Sun: Black bulb in Vacuo	97·0
Minimum on Grass	31·0
Temperature in Ground at surface	46·43
Temperature 6 inches below	47·65
Temperature 12 inches below	49·20
Temperature of Evaporation	45·5
Temperature of Dew Point	42·7
Temperature of Air—Dew Point	5·3

Hygrometrical condition of the Atmosphere.

	GRS.
Weight of Vapour in a cubic foot of Air	3·15
Required to Saturate do.	0 65
Weight of a cubic foot of Air	537·9
Degree of Humidity (Saturation—1,000)	0 825

	INS.
Water in a vertical column of the Atmosphere	3·79
Elastic force of Vapour	0·274
Clouds (Covered 10 Clear—0)	5·0
Prevailing Winds	E.
Rain	0·544
Days on which it fell	5

Ozonometer.

Moffat	(0—10)	0·00
Schonbein	(0—10)	0·00

	INS.
Daily Evaporation	0·061
Weekly Evaporation	0·427

Sale, J. Curtis, Esq.

Barometer.

		INS.
Mean @ 32° F		29·699
Highest	Unreduced	30·010
Lowest	Unreduced	29·528
Range		0·482

Temperature.

Adopted Mean	48·8
Range for Week	31·5
Daily Range	19·6
Maximum in Shade	63·5
Minimum in Shade	32·0
Maximum in Sun	74·8
Maximum in Sun: Black bulb in Vacuo	——
Minimum on Grass	31·2
Temperature in Ground at surface	48·57
Temperature 6 inches below	49·03
Temperature 12 inches below	52·48
Temperature of Evaporation	45.0
Temperature of Dew Point	40·9
Temperature of Air—Dew Point	7·9

Hygrometrical condition of the Atmosphere.

	GRS.
Weight of Vapour in a cubic foot of Air	2·92
Required to Saturate do.	1·04
Weight of a cubic foot of Air	541·9
Degree of Humidity (Saturation—1,000)	0·742

	INS.
Water in a vertical column of the Atmosphere	35·4
Elastic force of Vapour	0·256
Clouds (Covered—10 Clear—0)	4·7
Prevailing Winds	S. W. & N. E.
Rain	0·572
Days on which it fell	5

Ozonometer.

Moffat	(0—10)	——
Schonbein	(0—10)	——

	INS.
Daily Evaporation	0·089
Weekly Evaporation	0·534

The number of barometer oscillations for the week was 5, and the amount 1·046 inches. The mean temperature of the week was 5·4° below the average of the last eleven years; was colder than any corresponding week, and also colder than any week in September for the last twelve years.

The temperature at Sale was somewhat higher, and the moisture rather less than at Old Trafford: the fall of rain about the same at both places.

G. V. VERNON, F.R.A.S.

Old Trafford, Manchester,
October 3, 1860.

Powlson and Sons, Printers, Bow Street, John Dalton Street, Manchester.

HEALTH AND METEOROLOGY OF MANCHESTER.

COMMUNICATED TO THE

Manchester and Salford Sanitary Association.

WEEKLY RETURN.

VOL. I.] WEEK ENDING SATURDAY, OCTOBER 6, 1860. [No. 10.

[REPORT, &c., CONTINUED FROM LAST WEEK.]

DYSENTERY.

First.—Seems to be influenced by the variations in the mean temperature, but in less degree than Diarrhœa, the effect not being generally traced in the lesser undulations of the wave of disease.

Second.—Increased atmospheric pressure seems to be unfavourable to the progress of the disease,—high readings of the barometer being nearly always accompanied by diminished prevalence of Dysentery.

PNEUMONIA

Seems to be very greatly influenced by the mean temperature, the number of cases of the disease increasing as the temperature falls, and *visa versa.*

BRONCHITIS AND CATARRH.

The observations upon the variations of this disease, although based upon ten times the number of cases given for Pneumonia, appear to coincide exactly with those of the latter disease, especially at the times of greatest and least prevalence: it is least prevalent in July and August, and the most so about the end of November.

PLEURISY.

This disease appears so exceedingly irregular, that it has not been found possible to show any connection between it and Atmospheric changes, at least not from the data used in this investigation.

CONTINUED FEVER.

It is difficult to trace any connection between the progress of this disease, and the meteorological elements, but, on the whole, high temperatures seem rather favourable to its production, and extreme cold is, most probably, opposed thereto.

RHEUMATIC FEVER.

The data for the examination of this disease were not sufficiently extensive, and did not admit of accurate comparison with the meteorological elements, therefore no decisive conclusion can be drawn respecting it.

[*To be continued.*]

COMMITTEE ROOMS,
59, KING STREET, MANCHESTER.

MANCHESTER AND SALF

New Cases of Disease coming under Treatment in Pauper, Cl

During the Week ending

	MANCHESTER.															
Area in Statute Acres	Manchester Township 1,645															
Population in 1851	,, ,, 198,162															
	Poor Law Districts.							Public Institutions.								
									Royal Infirmary.					For Children		
DISEASES.	1 Deansgate.	2 Ancoats.	3 St. George's.	4 Market Street.	5 St. Jude's.	6 St. Michael's.	Total of Districts.	7 Workhouse.	8 In-patients.	9 Out-patients.	10 District I.	11 District II.	12 District III.	13 St. Mary's Hospital.	14 General Hospital.	15 Clinical Hospital.
Small-pox	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Chicken-pox	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Measles	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2
Scarlatina	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Diphtheria	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Whooping-cough	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Croup	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Diarrhœa	..	..	1	..	..	1	2	2	..	2	2	..	..	14	..	8
Dysentery	..	1	..	..	..	..	1	..	..	..	..	..	..	1	..	..
Cholera	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Continued Fever	..	..	1	1	..	..	2	2	1	..	..	1	1	3	..	5
Erysipelas	..	..	..	..	..	2	2	1	..	..	..	..	..	..	..	..
Puerperal Fever	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Rheumatism	..	..	..	1	..	..	1	5	4	6	2	2	2	..	..	..
Constitutional Syphilis	..	..	..	..	..	..	..	1	..	1	1	1	..	1	..	..
Phthisis	..	..	1	..	..	1	2	1	..	17	..	..	2	1	..	1
Mesenteric Disease	..	..	1	1	..	2	4	..	..	..	1	..	..	..	..	..
Disease of Heart	..	..	..	..	..	1	1	1	..	1	1	..	1	..	..	2
Insanity	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..
Bronchitis	..	1	..	1	1	1	4	8	..	27	6	1	1	5	..	3
Influenza and Catarrh	..	..	2	..	4	1	7	2	..	8	..	..	..	7	..	1
Pleurisy	..	..	..	..	..	..	..	1	..	..	..	..	1	..	..	..
Pneumonia	..	..	..	..	..	..	..	..	..	..	3	..	1	1	..	..
Dyspepsia	..	..	..	..	..	1	1	5	..	1	2	1	..	5	..	..
Kidney Disease	..	..	1	..	..	..	1	..	1	..	..	1	..	..	..	..
Neuralgic Affections	..	..	..	..	..	..	..	..	..	8	1	1	..	..	..	..
Carbuncle	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Ophthalmia	..	..	..	..	..	..	..	1	..	..	..	..	..	3	..	..
Accidents and diseases not classified	..	3	5	4	4	10	26	30	35	199	6	7	10	33	..	10
Total	‖..	5	12	8	9	20	54	61	41	290	25	15	19	74	‖..	32

‖Returns not received or received too late for publication.

NITARY ASSOCIATION.

Public Institutions of Manchester and adjoining Districts,

6th day of October, 1860.

SALFORD.				HULME.			CHORLTON.		ARDWICK				
1,329				477			646		508				Area in Statute Acres.
63,851				53,470			35,546		16180				Population in 1851.
RLAW RICTS	PUBLIC INSTITUTIONS.			POOR LAW DISTRICTS.									
Regent Road.	Workhouse.	Dispensary.	New Bailey	St. George's.	Medlock.	St. Philip's	Poor Law District.	Dispensary.	Poor Law District.	Ardwick & Ancoats Dispensary.	Chorlton Union Workhouse.	Total.	DISEASES.
18	19	20	21	22	23	24	25	26	27	28	29		
..	..	..	..	..	..	..	..	..	..	..	..	..	Small-pox
..	..	..	..	..	..	..	..	..	..	..	..	..	Chicken-pox
..	..	..	..	..	..	..	..	..	..	..	..	2	Measles
..	..	..	..	..	..	..	..	..	..	..	..	..	Scarlatina
..	..	..	.	..	..	..	..	..	..	..	..	..	Diphtheria
..	..	..	..	..	..	..	..	4	..	..	..	4	Whooping-cough
..	..	..	..	..	..	..	..	..	..	..	..	..	Croup
..	..	..	7	..	..	..	..	5	1	2	1	58	Diarrhœa
..	..	..	..	..	..	2	1	..	2	..	..	7	Dysentery
..	..	..	..	..	..	..	..	..	..	..	..	..	Cholera
..	..	..	..	3	..	4	1	6	..	5	1	35	Continued Fever
..	1	..	..	..	..	1	..	..	..	..	..	5	Erysipelas
..	..	..	..	..	..	..	..	..	..	..	..	..	Puerperal Fever
..	2	..	1	..	..	..	..	2	..	..	..	27	Rheumatism
..	..	..	..	..	..	..	..	2	..	..	2	9	Constitutional Syphilis
..	..	..	..	..	..	..	..	..	..	1	1	29	Phthisis
..	..	..	..	..	..	..	..	..	..	..	..	5	Mesenteric Disease
..	..	..	..	..	..	..	..	..	..	..	..	7	Disease of Heart
..	5	..	..	..	..	..	..	..	..	..	..	6	Insanity
..	1	..	1	2	..	2	..	10	..	15	4	91	Bronchitis
..	1	..	9	..	..	..	..	9	1	4	..	50	Influenza and Catarrh
..	..	..	..	..	..	..	..	2	..	..	..	4	Pleurisy
..	..	..	..	..	..	..	1	2	..	2	..	10	Pneumonia
..	..	..	1	..	..	3	1	5	..	1	..	47	Dyspepsia
..	..	..	..	..	..	..	..	..	..	..	..	3	Kidney Disease
..	..	..	..	..	..	1	..	..	..	..	1	12	Neuralgic Affections
..	..	..	..	..	..	..	..	..	..	..	..	..	Carbuncle
..	..	..	..	..	..	..	..	..	..	..	1	5	Ophthalmia
..	4	..	11	7	..	5	4	21	3	39	4	461	Accidents and diseases not classified
..	14	..	30	12	..	18	8	68	7	69	15	877	Total

Medical Officers to whom the Association is indebted for the annexed Returns.

(1) Mr. T. W. DYSON,
(2) ,, JOHN ARMSTRONG,
(3) ,, J. O. FLETCHER,
(4) ,, C. S. BOMPAS,
(5) ,, EVAN THOMAS,
(6) ,, T. W. DYSON,
(7) Mr. J. BROADBENT,
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(26) ,, E. HALLEY,
(27) ,, J. M. KIRKMAN,
(28) ,, N. PICKFORD,
(29) ,, GEO. GREAVES.

Meteorological Observations, taken at Manchester and the neighbourhood, during the Week ending Saturday, October 6, 1860.

Old Trafford, G. V. Vernon, Esq.

Barometer.

		INS.
Mean @ 32° F		30·093
Highest	Unreduced	30·292
Lowest	Unreduced	29·841
Range		0·451

Temperature.

Adopted Mean	50·9
Range for Week	23·0
Daily Range	13·7
Maximum in Shade	62·8
Minimum in Shade	39·8
Maximum in Sun	74·0
Maximum in Sun: Black bulb in Vacuo	88·0
Minimum on Grass	34·5
Temperature in Ground at surface	48·59
Temperature 6 inches below	48·73
Temperature 12 inches below	49·88
Temperature of Evaporation	48·9
Temperature of Dew Point	46·8
Temperature of Air—Dew Point	4·1

Hygrometrical condition of the Atmosphere.

	GRS.
Weight of Vapour in a cubic foot of Air	3·68
Required to Saturate do.	0·51
Weight of a cubic foot of Air	545·5
Degree of Humidity (Saturation—1,000)	0·869

	INS.
Water in a vertical column of the Atmosphere	4·44
Elastic force of Vapour	0·321
Clouds (Covered 10 Clear—0)	3·0

Prevailing Winds	S W. & W.
Rain	0·777
Days on which it fell	7

Ozonometer.

Moffat	(0—10)	1·14
Schonbein	(0—10)	0·14

	INS.
Daily Evaporation	0·052
Weekly Evaporation	0·364

Sale, J. Curtis, Esq.

Barometer.

		INS.
Mean @ 32° F		30·063
Highest	Unreduced	30·212
Lowest	Unreduced	29·844
Range		0·368

Temperature.

Adopted Mean	51·3
Range for Week	23·0
Daily Range	13·3
Maximum in Shade	63·2
Minimum in Shade	40·2
Maximum in Sun	73·5
Maximum in Sun: Black bulb in Vacuo	——
Minimum on Grass	36·1
Temperature in Ground at surface	50·20
Temperature 6 inches below	50·23
Temperature 12 inches below	51·83
Temperature of Evaporation	48.5
Temperature of Dew Point	45·6
Temperature of Air—Dew Point	5·7

Hygrometrical condition of the Atmosphere.

	GRS.
Weight of Vapour in a cubic foot of Air	3·47
Required to Saturate do.	0·79
Weight of a cubic foot of Air	544·5
Degree of Humidity (Saturation—1,000)	0·812

	INS.
Water in a vertical column of the Atmosphere	4·23
Elastic force of Vapour	0·306
Clouds (Covered—10 Clear—0)	6·3

Prevailing Winds	N. W. & S. W.
Rain	0·590
Days on which it fell	6

Ozonometer.

Moffat	(0—10)	——
Schonbein	(0—10)	——

	INS.
Daily Evaporation	0·072
Weekly Evaporation	0·504

The total amount of barometric oscillations during the week was 1·710 inches, the oscillations being 7 in number: this is a considerable increase upon any recent week, especially as the range of the column during the week was only small. Violent gusts of wind prevailed upon the 3rd, both at Manchester and Sale. The mean temperature of the week was 1·3° below the average of the last eleven years. Ozone was found at Old Trafford on two days only. The temperature at Sale has been slightly in excess, and the moisture somewhat less than at Old Trafford.

G. V. VERNON, F.R.A.S.

Old Trafford, Manchester,
October 9, 1860.

Powlson and Sons, Printers, Bow Street, John Dalton Street, Manchester.

HEALTH AND METEOROLOGY OF MANCHESTER.

COMMUNICATED TO THE

Manchester and Salford Sanitary Association.

WEEKLY RETURN.

VOL. I.] WEEK ENDING SATURDAY, OCTOBER 13, 1860. [No. 11.

RETURN OF BIRTHS AND DEATHS.

The Committee beg to announce that they have made arrangements by which they hope to obtain regular weekly returns of the number of Deaths from Small-pox, Measles, Scarlatina, Diarrhœa, Fever, and Diseases of the Lungs, together with the total number of Births and Deaths occurring each week in Manchester and Salford. They most cordially thank the Registrars of the several districts for the assistance which they have so readily afforded to the undertaking. In drawing attention to the first return of the series, published on the last page of the present issue, they would point out that these tables afford much information as to the nature, extent, and severity of disease prevailing in the particular districts of this locality, and, in addition to their intrinsic value, they will serve as a useful check upon any hasty conclusions which might be drawn from the Weekly Return of Disease, and thus, although the two series cannot be directly collated, yet the new table will form a most valuable supplement to the information previously supplied.

[REPORT, &c., CONTINUED FROM LAST WEEK.]

MEASLES.

In their principal variations the weekly numbers of the cases of Measles appear to increase with the fall of the temperature, and *vice versa,* and the influence of this element is best marked when it is above or below the average: in the present case the average was for 43 years.

WHOOPING COUGH

Seems to be much influenced by the extremes of heat and cold, the cases increasing with the fall and diminishing with the rise of temperature.

[*To be continued.*]

COMMITTEE ROOMS,
59, KING STREET, MANCHESTER.

MANCHESTER AND SALI

New Cases of Disease coming under Treatment in Pauper, C

During the Week ending

	MANCHESTER.															
Area in Statute Acres	Manchester Township 1,645															
Population in 1851	" " 198,162															
	Poor Law Districts.							Public Institutions.								
									Royal Infirmary.					For Children		
DISEASES.	1 Deansgate.	2 Ancoats.	3 St. George's.	4 Market Street.	5 St. Jude's.	6 St. Michael's.	Total of Districts.	7 Workhouse.	8 In-patients.	9 Out-patients.	10 District I.	11 District II.	12 District III.	13 St. Mary's Hospital.	14 General Hospital.	15 Clinical Hospital.
Small-pox	..	..	..	1	..	..	1	..	..	..	..	*1	..	..	..	..
Chicken-pox	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1
Measles	..	..	1	..	..	..	1	..	..	..	..	..	..	..	..	..
Scarlatina	..	..	..	..	..	..	..	..	1	..	..	..	1	..	..	..
Diphtheria	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Whooping-cough	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..
Croup	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Diarrhœa	..	..	..	..	..	1	1	..	..	2	..	..	..	10	..	†5
Dysentery	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Cholera	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Continued Fever	..	..	1	3	3	1	8	6	2	1	..	..	..	3	..	..
Erysipelas	..	..	..	..	..	..	..	..	..	3	..	..	1	..	..	..
Puerperal Fever	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Rheumatism	..	..	1	..	..	..	1	3	4	11	..	5	2	..	..	..
Constitutional Syphilis	..	..	..	..	..	..	..	2	..	3	..	..	..	..	..	..
Phthisis	..	..	..	..	1	..	1	..	1	19	2	3	5	..	..	2
Mesenteric Disease	..	1	..	1	..	1	3	..	..	..	..	..	..	1	..	..
Disease of Heart	..	..	..	..	..	..	..	..	2	2	1	..	5	..	..	..
Insanity	..	..	..	..	..	..	..	2	..	..	..	..	..	..	..	..
Bronchitis	..	1	3	4	..	1	9	10	..	34	9	4	6	8	..	3
Influenza and Catarrh	..	..	1	..	3	6	10	4	..	6	..	..	..	2	..	..
Pleurisy	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Pneumonia	..	..	1	..	..	..	1	..	2	..	3	..	..	..	..	2
Dyspepsia	..	..	..	..	..	2	2	1	..	24	2	..	..	6	..	1
Kidney Disease	..	..	1	..	..	..	1	2	..	2	..	1	..	..	..	..
Neuralgic Affections	..	..	..	..	..	..	..	..	..	14	..	..	..	..	..	..
Carbuncle	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..
Ophthalmia	..	..	..	..	1	..	1	1	..	..	..	..	..	3	..	..
Accidents and diseases not classified	..	1	3	5	6	6	21	48	32	193	5	4	12	31	..	13
Total	..	3	12	14	14	18	61	80	44	314	22	18	32	65	..	27

* In Lombard Street, Deansgate, other cases have been heard of in same Street.
† Other cases already under treatment also suffer from this disease.

NITARY ASSOCIATION.

Public Institutions of Manchester and adjoining Districts,

13*th day of October*, 1860.

SALFORD.				HULME.			CHORLTON.		ARDWICK				
.....1,329.....				.... 477.....			.. 646...		508	....	...	.....	Area in Statute Acres.
... 63,851.				.. 53,470. ..			.. 35,546..		16180	....	....	.....	Population in 1851.
RLAW TRICTS	PUBLIC INSTITUTIONS.			POOR LAW DISTRICTS.									
Regent Road. 18	Workhouse. 19	Dispensary. 20	New Bailey 21	St. George's. 22	Medlock. 23	St. Philip's 24	Poor Law District. 25	Dispensary. 26	Poor Law District. 27	Ardwick & Ancoats Dispensary. 28	Chorlton Union Workhouse. 29	Total	DISEASES.
..	..	1	..	..	..	..	..	..	..	1	..	4	Small-pox
..	..	3	..	..	..	..	..	..	..	..	..	4	Chicken-pox
..	..	..	..	1	..	..	..	..	..	..	..	2	Measles
..	..	..	..	3	..	..	..	..	..	..	..	6	Scarlatina
..	..	..	..	..	..	..	..	..	..	..	..	..	Diphtheria
..	..	..	..	..	..	..	..	..	..	..	..	1	Whooping-cough
..	..	..	..	..	..	..	..	..	..	..	..	..	Croup
..	3	5	..	1	..	2	..	2	..	2	1	38	Diarrhœa
..	3	3	..	..	..	..	..	..	..	..	..	6	Dysentery
..	..	..	..	..	..	..	..	..	..	..	..	..	Cholera
..	..	2	..	1	3	3	..	3	..	4	..	36	Continued Fever
..	..	2	..	..	..	..	..	..	..	..	..	7	Erysipelas
..	..	..	..	..	..	..	..	..	..	..	..	..	Puerperal Fever
..	2	4	..	..	1	..	..	1	1	..	1	36	Rheumatism
..	..	1	..	..	..	..	..	1	1	..	..	8	Constitutional Syphilis
..	..	5	..	1	..	..	1	1	..	3	1	46	Phthisis
..	..	..	..	..	..	..	..	1	..	..	..	5	Mesenteric Disease
..	..	..	..	..	..	..	..	2	..	..	..	12	Disease of Heart
..	4	..	..	..	..	..	..	..	..	..	..	6	Insanity
..	1	17	..	..	..	2	3	10	2	6	2	128	Bronchitis
..	2	3	..	..	1	..	1	3	..	..	1	33	Influenza and Catarrh
..	..	..	..	..	..	1	..	..	..	..	..		Pleurisy
..	..	3	..	..	..	1	..	3	..	2	..	17	Pneumonia
..	..	7	..	..	..	1	..	2	..	5	1	52	Dyspepsia
..	..	..	..	..	..	..	..	..	..	..	..	7	Kidney Disease
..	..	3	..	..	..	1	..	1	..	..	..	19	Neuralgic Affections
..	..	..	..	..	1	..	..	..	..	..	..	2	Carbuncle
..	..	..	..	..	..	..	..	1	..	1	..	7	Ophthalmia
..	3	64	..	2	9	10	2	32	1	48	4	540	Accidents and diseases not classified
..	18	123	‖..	9	15	21	7	63	5	72	11	1023	Total

‡ Traumatic.

‖ Returns not received or received too late for publication.

Medical Officers to whom the Association is indebted for the annexed Returns.

(1) Mr. T. W. DYSON,
(2) ,, JOHN ARMSTRONG,
(3) ,, J. O. FLETCHER,
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(21) ,, Mr. M. O. LARMUTH,
(22) ,, T. F. BROWNBILL,
(23) ,, J. O. BRADBURY,
(24) ,, W. B. STOTT,
(25) ,, T. G. RICHMOND,
(26) ,, Dr. ALEX. WILSON,
(27) ,,
(28) ,,
(29) ,,

Weekly Return of Births and Deaths in Manchester and Salford.

Causes of Death.	Ancoats District, Mr. Royston.	St. George's Dis., Mr. Worthington.	Market-st. Dis., Mr. A. Gardner.	London-rd. Dis., Dr. Johns.	Deansgate Dis., Mr. Leigh.	Greengate Dis., Mr. Bowers.	Regent-rd. Dis., Mr. Tipple.	Chorlton-on-M., Mr. Rowley.	Hulme Township, Mr. Sorby.	Ardwick Tnshp., Mr. Hallsworth.	TOTAL.
Small Pox	..	..	..	..	..	..	..	..	..	..	..
Measles	..	..	..	..	..	..	..	..	..	..	..
Scarlatina	..	..	..	..	..	..	..	..	..	..	..
Diarrhœa	1	3	..	1	1	3	1	..	..	..	10
Fever	1	..	1	1	..	1	..	2	..	..	6
Diseases of the Lungs	12	..	..	3	2	4	2	8	..	3	34
Other causes	22	10	15	7	8	7	8	10	..	7	94
TOTAL NO. OF DEATHS.	36	13	16	10	11	15	11	18	..	10	140
TOTAL NO. OF BIRTHS.	39	26	13	..	22	28	20	27	..	13	188

METEOROLOGICAL OBSERVATIONS, TAKEN AT MANCHESTER AND THE NEIGHBOURHOOD, DURING THE WEEK ENDING SATURDAY, OCTOBER 13, 1860.

	Old Trafford, G. V. VERNON, ESQ.		Sale, J. CURTIS, ESQ.
Barometer.			
	INS.		INS.
Mean @ 32° F	297·27	.....	29·724
Highest (Unreduced)	30·165	.....	30·162
Lowest (Unreduced)	29·282	.....	29·328
Range	0·883	.....	0·834
Temperature.			
Adopted Mean	44·5	.....	45·6
Range for Week	30·0	.....	33·5
Daily Range	14·4	.....	12·7
Maximum in Shade	58·8	.....	61·0
Minimum in Shade	28·8	.....	27·5
Maximum in Sun	75·6	.....	70·0
Maximum in Sun: Black bulb in Vacuo	87·0	.....	——
Minimum on Grass	24·2	.....	24·0
Temperature in Ground at surface	44·59	.....	44·54
Temperature 6 inches below	45·82	.....	47·23
Temperature 12 inches below	48·12	.....	49·97
Temperature of Evaporation	42·1	.....	42·5
Temperature of Dew Point	39·3	.....	38·9
Temperature of Air—Dew Point	5·2	.....	6·7
Hygrometrical condition of the Atmosphere.			
	GRS.		GRS.
Weight of Vapour in a cubic foot of Air	2·77	.....	2·74
Required to Saturate do	0·58	.....	0·78
Weight of a cubic foot of Air	546·0	.....	545·0
Degree of Humidity (Saturation—1,000)	0·818	.....	0·779
	INS.		INS.
Water in a vertical column of the Atmosphere	3·31	.....	3·28
Elastic force of Vapour	0·240	.....	0·237
Clouds (Covered—10 Clear—0)	5·8	.....	4·5
Prevailing Winds	W. & S. W.	.....	N.W., W., & S.W.
Rain	1·097	.....	1·080
Days on which it fell	6	.....	6
Ozonometer.			
Moffat (0—10)	0·28	.....	——
Schonbein (0—10)	0·00	.....	——
	INS.		INS.
Daily Evaporation	0·054	.....	0·069
Weekly Evaporation	0·378	.....	0·483

The oscillations of the barometer have been greater, in amount, than during the few previous weeks. The total number of oscillations was 5, and the amount 2.242 inches. Upon the 12th the temperature fell suddenly 11·3° as compared with the 11th, and upon the 13th it rose 14·1° as compared with the 12th. This depression produced falls of snow in the northern parts of England. Hail fell at Old Trafford both upon the 8th and 13th. Strong winds prevailed upon the 8th, 9th, and 10th, and more especially very early on the morning of the 9th. The mean temperature of the week was 4·6° below the average of the last eleven years, and colder than any corresponding week for that period. Ozone occurred upon one day only.

The relative degree of humidity is less than during the previous week, although accompanied by a much heavier fall of rain.

G. V. VERNON, F.R.A.S.

Old Trafford, Manchester,
October 16th, 1860.

Powlson and Sons, Printers, Bow Street, John Dalton Street, Manchester.

HEALTH AND METEOROLOGY OF MANCHESTER.

COMMUNICATED TO THE

Manchester and Salford Sanitary Association.

WEEKLY RETURN.

VOL. I.] WEEK ENDING SATURDAY, OCTOBER 20, 1860. [No. 12.

RETURN OF BIRTHS AND DEATHS.

The Committee beg to announce that they have made arrangements by which they hope to obtain regular weekly returns of the number of Deaths from Small-pox, Measles, Scarlatina, Diarrhœa, Fever, and Diseases of the Lungs, together with the total number of Births and Deaths occurring each week in Manchester and Salford. They most cordially thank the Registrars of the several districts for the assistance which they have so readily afforded to the undertaking. In directing attention to the return (published on the last page of the present issue,) they would point out that these tables afford much information as to the nature, extent, and severity of disease prevailing in the particular districts of this locality, and, in addition to their intrinsic value, they will serve as a useful check upon any hasty conclusions which might be drawn from the Weekly Return of Disease, and thus, although the two series cannot be directly collated, yet the new table will form a most valuable supplement to the information previously supplied.

[REPORT, &c., CONCLUDED.]

SCARLATINA.

A large amount of aqueous vapour in the air appears greatly to facilitate the formation and action of the peculiar scarlatinal poison, especially when this is accompanied by sudden fluctuations of the atmospheric pressure as shown by the barometer: a diminished pressure being favourable to the disease.

It is rather difficult to separate the influence of temperature from that of humidity, but a moderately low temperature seems to be favourable to the progress of the disease, whilst the extremes of both heat and cold seem often to exert a disturbing influence one way or other: a temperature above the average generally diminishing, and cold increasing, the number of cases.

Thus far, the Committee clearly traced, though often but faintly, the influence of the few meteorological elements which they have studied. Taken in connection with large numbers of cases of disease, although a clearly defined and exact accordance cannot be found, still they perceive a certain general relation existing between them, and enough may perhaps have been done to prove the value of such an enquiry.

Before closing this report the Committee must state that it seems very desirable that many other branches of meteorogical research should be included in the enquiry, and compared with disease: among these may be mentioned, Winds, Electricity of the Atmosphere, Rain, Microscopical and Chemical Analysis of the Atmosphere. Under the last named head regular series of observations made at various stations with the Sepometer of DR. R. A. SMITH, F.R.S., &c., would be of very great importance.

COMMITTEE ROOMS,
59, KING STREET, MANCHESTER.

MANCHESTER AND SAL

New Cases of Disease coming under Treatment in Pauper, C

During the Week ending

	MANCHESTER.															
Area in Statute Acres	Manchester Township 1,645															
Population in 1851	" " 198,162															
	Poor Law Districts.							Public Institutions.								
									Royal Infirmary.					For Children		
DISEASES.	1 Deansgate.	2 Ancoats.	3 St. George's.	4 Market Street.	5 St. Jude's.	6 St. Michael's.	Total of Districts.	7 Workhouse.	8 In-patients.	9 Out-patients.	10 District I.	11 District II.	12 District III.	13 St. Mary's Hospital.	14 General Hospital.	15 Clinical Hospital.
Small-pox	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Chicken-pox	..	..	..	..	2	..	2	..	..	..	..	..	..	..	..	..
Measles	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Scarlatina	..	..	..	..	..	1	1	1	..	..	2	..	..	..	..	..
Diphtheria	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Whooping-cough	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Croup	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Diarrhœa	..	..	1	..	..	1	2	..	1	3	..	..	..	8	..	5
Dysentery	..	..	..	..	..	..	..	..	1	..	..	..	..	1	..	2
Cholera	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Continued Fever	..	..	..	..	1	..	1	2	1	2	..	1	..	8	..	1
Erysipelas	..	..	..	..	1	1	2	1	..	1	..	1	..	..	..	..
Puerperal Fever.....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Rheumatism	..	..	1	..	..	..	1	1	1	12	..	2	..	..	..	..
Constitutional Syphilis	..	..	..	..	..	..	..	6	..	4	..	1	1	2	..	1
Phthisis	..	..	1	..	..	..	1	6	..	8	4	2	..	3	..	1
Mesenteric Disease	..	..	..	..	..	..	..	..	..	..	1	..	..	1	..	..
Disease of Heart	..	..	1	..	..	..	1	2	..	4	1	1	1	..	..	..
Insanity	..	..	..	..	..	..	..	6	..	..	..	..	..	..	..	..
Bronchitis	..	1	1	1	..	1	4	7	1	34	6	..	1	10	..	5
Influenza and Catarrh	..	..	3	..	1	4	8	3	..	1	..	1	..	3	..	..
Pleurisy	..	..	1	..	..	..	1	1	..	..	..	..	..	..	..	..
Pneumonia.....	..	..	..	..	..	..	..	..	..	..	..	..	..	3	..	2
Dyspepsia	..	..	..	..	..	2	2	..	..	22	..	..	1	3	..	3
Kidney Disease	..	..	..	..	..	..	..	1	..	2	..	..	..	..	..	..
Neuralgic Affections	..	..	..	..	..	..	..	..	..	13	..	..	..	..	..	..
Carbuncle	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Ophthalmia.....	..	..	..	..	1	..	1	..	..	4	..	..	..	1	..	1
Accidents and diseases not classified	..	4	6	2	8	3	23	35	24	176	15	6	8	39	..	7
Total.....	..	5	15	3	14	13	50	72	29	286	29	15	12	82	..	28

* This case was just recovering from Chicken Pox when Measles set in.

NITARY ASSOCIATION.

Public Institutions of Manchester and adjoining Districts,

20th day of October, 1860.

SALFORD.				HULME.			CHORLTON.		ARDWICK				
.....1,329.....				.... 477.....			.. 646...		508	....	...	.....	Area in Statute Acres.
... 63,851.				.. 53,470. ..			.. 35,546 ..		16180	....	....	.....	Population in 1851.
rLaw Districts	Public Institutions.			Poor Law Districts.									
Regent Road. 18	Workhouse. 19	Dispensary. 20	New Bailey 21	St. George's. 22	Medlock. 23	St. Philip's 24	Poor Law District. 25	Dispensary. 26	Poor Law District. 27	Ardwick & Ancoats Dispensary. 28	Chorlton Union Workhouse. 29	Total.	DISEASES.
..	..	..	..	..	..	..	..	..	..	..	..	..	Small-pox
..	..	2	..	..	..	..	..	..	..	..	..	4	Chicken-pox
..	..	*1	..	1	..	..	..	..	..	..	..	2	Measles
..	..	..	..	2	..	..	..	..	..	..	..	6	Scarlatina
..	..	..	..	..	..	..	..	..	..	..	..	..	Diphtheria
..	..	..	..	..	..	..	..	..	..	..	..	..	Whooping-cough
..	..	..	..	..	..	..	..	..	..	..	..	..	Croup
..	1	3	5	..	1	1	..	2	..	1	..	37	Diarrhœa
..	..	3	..	..	..	..	..	..	..	..	..	7	Dysentery
..	..	..	..	..	..	..	..	..	..	..	..	..	Cholera
..	..	2	..	1	2	4	..	2	..	1	..	29	Continued Fever
..	..	..	..	..	..	..	..	1	..	1	..	7	Erysipelas
..	1	..	..	..	..	..	..	..	..	..	..	1	Puerperal Fever
..	3	2	4	..	..	..	..	1	..	3	2	33	Rheumatism
..	..	..	2	..	..	..	..	..	..	1	..	19	Constitutional Syphilis
..	..	2	..	3	..	1	..	2	..	4	1	38	Phthisis
..	..	3	..	..	..	..	..	2	..	2	..	9	Mesenteric Disease
..	..	1	..	..	..	..	..	..	..	..	..	11	Disease of Heart
..	..	..	..	..	..	..	..	..	..	..	2	8	Insanity
..	4	16	..	1	1	3	2	10	..	5	1	112	Bronchitis
..	3	8	8	2	..	..	1	1	..	3	2	44	Influenza and Catarrh
..	..	..	..	..	..	..	..	..	..	..	..	2	Pleurisy
..	..	1	..	..	..	2	..	1	1	..	..	10	Pneumonia
..	..	8	2	1	..	2	..	6	..	..	..	50	Dyspepsia
..	..	1	..	..	..	..	..	..	..	..	..	4	Kidney Disease
..	..	4	..	..	..	..	..	1	..	1	..	19	Neuralgic Affections
..	..	2	..	..	..	..	1	1	..	..	..	4	Carbuncle
..	..	..	..	..	..	..	..	..	..	..	1	8	Ophthalmia
..	5	71	11	1	3	8	3	37	4	55	5	541	Accidents and diseases not classified
..	17	130	32	12	7	21	7	67	5	77	14	1005	Total

Medical Officers to whom the Association is indebted for the annexed Returns.

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(25) ,, W. B. STOTT,
(26) ,, T. G. RICHMOND,
(27) Dr. ALEX. WILSON,

|| Returns not received or received too late for publication.

Weekly Return of Births and Deaths in Manchester and Salford.

Causes of Death.	Ancoats District, Mr. Royston.	St. George's Dis., Mr. Worthington.	Market-st. Dis., Mr. A. Gardiner.	London-rd. Dis., Dr. Johns.	Deansgate Dis., Mr. Leigh.	Greengate Dis., Mr. Bower.	Regent-rd. Dis., Mr. Tipple.	Chorlton-on-M., Mr. Rowley.	Hulme Township, Mr. Sorby.	Ardwick Tnshp., Mr. Hallsworth.	TOTAL.
Small Pox	..	..	..	..	..	..	..	..	..	..	..
Measles	..	..	..	..	..	..	..	..	..	..	..
Searlatina	..	..	1	..	..	..	1	..	..	..	2
Diarrhœa	2	..	..	2	3	3	4	1	..	..	15
Fever	..	2	..	..	..	2	..	..	..	..	4
Diseases of the Lungs	9	6	..	..	4	3	2	2	..	1	27
Other eauses	9	6	19	14	6	10	9	4	..	4	81
TOTAL No. OF DEATHS.	20	14	20	16	13	18	16	7	..	5	129
TOTAL No. OF BIRTHS.	42	26	10	..	18	23	18	22	..	21	185

METEOROLOGICAL OBSERVATIONS, TAKEN AT MANCHESTER AND THE NEIGHBOURHOOD, DURING THE WEEK ENDING SATURDAY, OCTOBER 20, 1860.

	Old Trafford, G. V. VERNON, ESQ.		Sale, J. CURTIS, ESQ.
Barometer.			
	INS.		INS.
Mean @ 32° F	29·508	.....	29·544
Highest (Unreduced)	30·068	.....	30·056
Lowest (Unreduced)	29·202	.....	29·348
Range	0·866	.....	0·708
Temperature.			
Adopted Mean	48·9	.....	49·1
Range for Week	19·3	.....	19·7
Daily Range	11·9	.....	14·1
Maximum in Shade	60·5	.....	60·7
Minimum in Shade	41·2	.....	41·0
Maximum in Sun	69·4	.....	67·2
Maximum in Sun: Black bulb in Vacuo	78·3	.....	——
Minimum on Grass	35·0	.....	37·8
Temperature in Ground at surface	46·35	.....	46·78
Temperature 6 inches below	46·73	.....	47·99
Temperature 12 inehes below	47·71	.....	49·26
Temperature of Evaporation	47·0	.....	45·9
Temperature of Dew Point	45·0	.....	42·5
Temperature of Air—Dew Point	3·9	.....	6·6
Hygrometrical condition of the Atmosphere.			
	GRS.		GRS.
Weight of Vapour in a cubic foot of Air	3·32	.....	3·07
Required to Saturate do	0·57	.....	0·94
Weight of a eubic foot of Air	537·2	.....	537·6
Degree of Humidity (Saturation—1,000)	0·877	.....	0·779
	INS.		INS.
Water in a vertical column of the Atmosphere	4·14	.....	3·76
Elastic force of Vapour	0·299	.....	0·272
Clouds (Covered—10 Clear—0)	9·7	.....	7·4
Prevailing Winds	S. W. & W.	.....	S.W.
Rain	1·983	.....	1·860
Days on whieh it fell	7	.....	7
Ozonometer.			
Moffat (0—10)	3·14	.....	——
Sehonbein (0—10)	1·43	.....	——
	INS.		INS.
Daily Evaporation	0·047	.....	0·077
Weekly Evaporation	0·329	.....	0·539

The oscillations of the barometer were 7 in number during the past week, and 2·940 ins. in amount. This is the largest amount of disturbanee for many weeks. The difference between the minimum barometer readings is owing to the minimum having oeeurred at 1-30 p.m., on the 18th, and this low reading was not noted at Sale; the reading given for Sale being the minimum at 10 p.m., upon the 15th. The mean temperature of the week was 0·2° above the eleven years' mean, and 0·4° above that of the eorresponding week last year. Ozone oecurred upon five days during the week. There has been a greater differenee between the humidity of Sale and Old Trafford during the past than in the preeeding few weeks, the former plaee being eonsiderably drier during the past week. A considerable amount of wind prevailed during the week, as might be expeeted from the large barometrie disturbance.

G. V. VERNON, F.R.A.S.

Old Trafford, Manchester,
October 23rd, 1860.

Powlson and Sons, Printers, Bow Street, John Dalton Street, Manchester.

HEALTH AND METEOROLOGY OF MANCHESTER.

COMMUNICATED TO THE

Manchester and Salford Sanitary Association.

WEEKLY RETURN.

Vol. I.] WEEK ENDING SATURDAY, OCTOBER 27, 1860. [No. 13.

RETURN OF BIRTHS AND DEATHS.

The Committee beg to announce that they have made arrangements by which they hope to obtain regular weekly returns of the number of Deaths from Small-pox, Measles, Scarlatina, Diarrhœa, Fever, and Diseases of the Lungs, together with the total number of Births and Deaths occurring each week in Manchester and Salford. They most cordially thank the Registrars of the several districts for the assistance which they have so readily afforded to the undertaking. In directing attention to the return (published on the last page of the present issue,) they would point out that these tables afford much information as to the nature, extent, and severity of disease prevailing in the particular districts of this locality, and, in addition to their intrinsic value, they will serve as a useful check upon any hasty conclusions which might be drawn from the Weekly Return of Disease, and thus, although the two series cannot be directly collated, yet the new table will form a most valuable supplement to the information previously supplied.

☞ Copies of the "Weekly Return" are regularly forwarded to all Public Institutions from which information is received, also to such public officers as are willing to assist the objects of the compilation. They will also be supplied to the Subscribers upon application to the Secretary, Mr. C. H. Minchin, at the Committee Rooms of the Association.

Contributors are requested to forward their communications not later than the Monday in the week following that to which they relate.

The Committee would also be glad to receive any other information respecting the Health of the several districts.

COMMITTEE ROOMS,
59, KING STREET, MANCHESTER.

MANCHESTER AND SALF

New Cases of Disease coming under Treatment in Pauper, Cha

During the Week ending S

DISEASES.	MANCHESTER.																
Area in Statute Acres	Manchester Township 1,645																
Population in 1851	" " 198,162																
	Poor Law Districts.							Public Institutions.									
									Royal Infirmary.					For Children			
	1 Deansgate.	2 Ancoats.	3 St. George's.	4 Market Street.	5 St. Jude's.	6 St. Michael's.	Total of Districts.	7 Workhouse.	8 In-patients.	9 Out-patients.	10 District I.	11 District II.	12 District III.	13 St. Mary's Hospital.	14 General Hospital.	15 Clinical Hospital.	1
Small-pox	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	.
Chicken-pox	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.
Measles	..	..	..	..	..	3	3	..	..	..	..	..	..	2	..	..	.
Scarlatina	..	..	..	..	..	..	..	..	1	..	1	..	..	..	..	..	.
Diphtheria	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.
Whooping-cough	..	..	..	..	..	..	..	..	..	..	..	..	..	2	..	1	.
Croup	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.
Diarrhœa	..	1	2	..	..	2	5	2	..	..	..	..	..	3	..	2	
Dysentery	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.
Cholera	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.
Continued Fever	..	..	..	..	2	..	2	2	2	1	..	2	..	9	..	3	.
Erysipelas	..	..	..	..	..	1	1	2	..	1	..	..	1	..	..	..	.
Puerperal Fever	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.
Rheumatism	..	..	1	..	1	..	2	4	2	9	..	1	1	1	..	1	
Constitutional Syphilis	..	..	..	..	..	..	..	..	..	14	..	..	..	..	..	..	.
Phthisis	..	..	1	1	1	..	3	1	2	14	8	..	2	1	..	..	.
Mesenteric Disease	..	..	..	1	..	1	2	1	..	1	..	..	..	..	..	..	.
Disease of Heart	..	..	1	..	..	..	1	2	..	6	3	..	1	..	..	..	.
Insanity	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
Bronchitis	..	3	2	3	..	..	8	10	..	50	5	1	..	11	..	1	.
Influenza and Catarrh	..	..	4	..	6	1	11	3	..	5	..	..	..	4	..	..	.
Pleurisy	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..	.
Pneumonia	..	..	..	..	..	..	..	..	..	1	..	1	1	3	..	2	.
Dyspepsia	..	..	..	..	..	..	..	1	..	28	..	1	..	1	..	..	
Kidney Disease	..	..	1	..	..	..	1	2	..	2	..	..	..	..	..	..	.
Neuralgic Affections	..	..	..	..	..	..	..	1	..	9	..	2	..	1	..	..	.
Carbuncle	..	..	..	..	..	..	..	2	..	..	..	..	..	..	..	..	.
Ophthalmia	..	..	..	..	..	..	..	2	..	1	..	..	..	4	..	3	.
Accidents and diseases not classified	..	2	5	3	8	4	22	48	37	229	14	9	9	29	..	13	
Total	..	6	17	8	18	12	61	83	44	372	31	17	15	72	..	26	

* Including one case of Delirium Tremens.

NITARY ASSOCIATION.

Public Institutions of Manchester and adjoining Districts,

27th day of October, 1860.

SALFORD.				HULME.			CHORLTON.		ARDWICK				
1,329.				477.			646.		508	....	....	.....	Area in Statute Acres.
63,851.				53,470.			35,546.		16180	....	....	....	Population in 1851.
Poor Law Districts	Public Institutions.			Poor Law Districts.									
Regent Road. 18	Workhouse. 19	Dispensary. 20	New Bailey 21	St. George's. 22	Medlock. 23	St. Philip's 24	Poor Law District. 25	Dispensary. 26	Poor Law District. 27	Ardwick & Ancoats Dispensary. 28	Chorlton Union Workhouse. 29	Total.	DISEASES.
..	..	..	..	..	..	..	..	..	..	..	..	1	Small-pox
..	..	..	..	..	..	..	..	..	..	..	..	..	Chicken-pox
..	..	..	..	..	..	..	..	..	..	1	..	6	Measles
..	..	..	..	..	..	..	..	..	..	..	..	2	Scarlatina
..	..	..	..	..	..	..	..	..	..	..	..	..	Diphtheria
..	..	..	..	..	..	..	..	..	..	..	..	3	Whooping-cough
..	..	..	..	..	..	..	..	..	..	..	..	..	Croup
..	3	1	6	1	..	1	..	1	..	..	..	27	Diarrhœa
..	..	3	..	..	..	..	..	..	..	..	..	3	Dysentery
..	..	..	..	..	..	..	..	..	..	..	..	..	Cholera
..	..	2	..	1	2	..	4	3	..	1	..	34	Continued Fever
..	..	..	..	..	1	..	..	..	..	1	..	7	Erysipelas
..	..	..	..	..	1	..	..	..	..	..	..	1	Puerperal Fever
..	3	4	1	..	1	..	2	2	1	2	..	39	Rheumatism
..	..	1	..	1	..	..	..	..	..	..	1	17	Constitutional Syphilis
..	..	5	..	1	1	1	..	4	1	3	..	48	Phthisis
..	..	2	..	..	..	..	..	..	..	1	1	8	Mesenteric Disease
..	..	..	..	..	..	..	..	..	..	..	..	13	Disease of Heart
..	..	..	..	..	..	..	..	..	..	..	3	4	Insanity
..	3	15	..	..	1	3	..	7	1	2	..	120	Bronchitis
..	2	3	8	2	..	2	..	5	..	1	1	47	Influenza and Catarrh
..	1	..	..	..	..	..	..	..	1	..	..	3	Pleurisy
..	..	..	..	..	..	..	..	1	..	..	..	9	Pneumonia
..	..	4	1	..	2	1	..	5	..	3	1	52	Dyspepsia
..	..	..	..	..	..	..	..	2	..	..	..	7	Kidney Disease
..	..	..	..	..	..	..	..	1	..	..	..	14	Neuralgic Affections
..	1	..	1	..	..	..	..	..	..	..	..	4	Carbuncle
..	..	..	1	..	..	..	..	1	..	..	..	12	Ophthalmia
..	6	53	14	1	4	10	4	*31	1	42	3	583	Accidents and diseases not classified
‖ ..	19	93	32	7	13	18	10	63	5	57	10	1064	Total

Medical Officers to whom the Association is indebted for the annexed Returns.

(1) Mr. T. W. DYSON,
(2) ,, JOHN ARMSTRONG,
(3) ,, J. O. FLETCHER,
(4) ,, C. S. BOMPAS,
(5) ,, EVAN THOMAS,
(6) ,, M. O. LARMUTH,
(7) Mr. J. BROADBENT,
(8) ,, M. ROWLAND DAY,
(9) Dr. JOHN MEDD,
(10) Mr. J. S. DAVIES,
(11) ,, W. J. MALLETT,
(12) ,, T. F. BROWNBILL,
(13) Mr. H. RUNCORN,
(14) J. O. BRADBURY,
(15) Dr. WHITEHEAD,
(16) Mr. W. GOLLAND,
(17) ,, J. TEALE,
(18) ,, W. B. STOTT,
(19) ,, T. G. RICHMOND,
(20) Dr. ALEX. WILSON,
(21) Mr. H. M. WILLIAMSON,
(22) ,, W. B. MIDWOOD,
(23) ,, E. HALLEY,
(24) ,, J. M. KIRKMAN,
(25) ,, N. PICKFORD,
(26) ,, GEO. GREAVES.

‖ Returns not received or received too late for publication.

Weekly Return of Births and Deaths in Manchester and Salford.

Causes of Death.	Ancoats District, Mr. Royston.	St. George's Dis., Mr. Worthington.	Market-st. Dis., Mr. A. Gardiner.	London-rd. Dis., Dr. Johns.	Deansgate Dis., Mr. Leigh.	Greengate Dis., Mr. Bower.	Regent-rd. Dis., Mr. Tipple.	Chorlton-on-M., Mr. Rowley.	Hulme Township, Mr. Sorby.	Ardwick Tnshp., Mr. Hallsworth.	TOTAL.
Small Pox	..	..	..	..	..	..	..	..	..	..	..
Measles	1	1	..	..	..	..	..	..	..	..	2
Searlatina	..	..	..	..	..	..	..	..	..	..	..
Diarrhœa	1	1	1	1	..	1	..	..	..	..	5
Fever	3	..	1	2	1	1	..	1	3	1	13
Diseases of the Lungs	6	8	..	9	9	8	4	5	7	3	59
Other causes	9	7	26	8	14	12	8	7	22	6	119
TOTAL No. OF DEATHS.	20	17	28	20	24	22	12	13	32	10	198
TOTAL No. OF BIRTHS.	47	44	19	..	26	34	26	32	61	19	308

METEOROLOGICAL OBSERVATIONS, TAKEN AT MANCHESTER AND THE NEIGHBOURHOOD, DURING THE WEEK ENDING SATURDAY, OCTOBER 27, 1860.

	Old Trafford, G. V. VERNON, ESQ.		Sale, J. CURTIS, ESQ.
Barometer.			
	INS.		INS.
Mean @ 32° F	29·839	.....	29·844
Highest (Unreduced)	30·100	.....	30·100
Lowest (Unreduced)	29·792	.....	29·802
Range	0·308	.....	0·298
Temperature.			
Adopted Mean	49·5	.....	50·0
Range for Week	22·7	.....	26·6
Daily Range	15·9	.....	17·2
Maximum in Shade	62·7	.....	64·0
Minimum in Shade	40·0	.....	38·0
Maximum in Sun	77·4	.....	71·8
Maximum in Sun: Black bulb in Vacuo	85·5	.....	——
Minimum on Grass	34·6	.....	36·1
Temperature in Ground at surface	47·29	.....	48.35
Temperature 6 inches below	47·52	.....	48·68
Temperature 12 inches below	48·58	.....	50·16
Temperature of Evaporation	47·7	.....	47·8
Temperature of Dew Point	45·2	.....	45·5
Temperature of Air—Dew Point	4·3	.....	4·5
Hygrometrical condition of the Atmosphere.			
	GRS.		GRS.
Weight of Vapour in a cubic foot of Air	3·56	.....	3·46
Required to Saturate do	0·49	.....	0·64
Weight of a cubic foot of Air	542·4	.....	542·1
Degree of Humidity (Saturation—1,000)	0·879	.....	0·848
	INS.		INS.
Water in a vertical column of the Atmosphere	4·18	.....	4·22
Elastic force of Vapour	0·302	.....	0·305
Clouds (Covered—10 Clear—0)	6·1	.....	4·1
Prevailing Winds	S.E.	.....	S.W.
Rain	0·141	.....	0·190
Days on which it fell	2	.....	3
Ozonometer.			
Moffat (0—10)	0·00	.....	——
Schonbein (0—10)	0·00	.....	——
	INS.		INS.
Daily Evaporation	0·051	.....	0·056
Weekly Evaporation	0·357	.....	0·392

The oscillations of the barometer were 7 in number during the past week, and 0·880 ins. in amount. This is considerably less than that experienced for some weeks back. The mean temperature of the week was 3·02° above the average of the last eleven years; excepting a few weeks in May, this week has been more above the average temperature than any week this year. No ozone was detected during the week. Although the barometer range was small during the week, there was a considerable amount of wind at times. There was very little difference between the different elements at the two stations during the week.

G. V. VERNON, F.R.A.S.

Old Trafford, Manchester,
October 30th, 1860.

Powlson and Sons, Printers, Bow Street, John Dalton Street, Manchester.

HEALTH AND METEOROLOGY OF MANCHESTER.

COMMUNICATED TO THE

Manchester and Salford Sanitary Association.

WEEKLY RETURN.

Vol. I.] WEEK ENDING SATURDAY, NOVEMBER 3, 1860. [No. 14.

METEOROLOGICAL OBSERVATIONS, TAKEN AT MANCHESTER AND THE NEIGHBOURHOOD, DURING THE WEEK ENDING SATURDAY, NOVEMBER 3, 1860.

	Old Trafford, G. V. Vernon, Esq.		Sale, J. Curtis, Esq.
Barometer.			
	INS.		INS.
Mean @ 32° F.	30·071	.....	30·051
Highest (Unreduced)	30·182	.....	30·172
Lowest (Unreduced)	29·930	.....	29·940
Range	0·252	.....	0·232
Temperature.			
Adopted Mean	46·6	.....	45·8
Range for Week	22·8	.....	29·5
Daily Range	11·2	.....	13·3
Maximum in Shade	56·8	.....	58·0
Minimum in Shade	34·0	.....	28·5
Maximum in Sun	60·8	.....	62·2
Maximum in Sun: Black bulb in Vacuo	67·7	.....	——
Minimum on Grass	28·0	.....	26·0
Temperature in Ground at surface	46·39	.....	44·07
Temperature 6 inches below	47·23	.....	47·83
Temperature 12 inches below	48·83	.....	49·94
Temperature of Evaporation	45·6	.....	44·5
Temperature of Dew Point	44·5	.....	43·0
Temperature of Air—Dew Point	2·1	.....	2·8
Hygrometrical condition of the Atmosphere.			
	GRS.		GRS.
Weight of Vapour in a cubic foot of Air	3·36	.....	3·17
Required to Saturate do	0·30	.....	0·39
Weight of a cubic foot of Air	549·9	.....	551·5
Degree of Humidity (Saturation—1,000)	0·930	.....	0·904
	INS.		INS.
Water in a vertical column of the Atmosphere	4·07	.....	3·83
Elastic force of Vapour	0·294	.....	0·277
Clouds (Covered—10 Clear—0)	6·8	.....	7·0
Prevailing Winds	S.E. & N.E.	.....	S.W. & E.
Rain	0·105	.....	0·140
Days on which it fell	2	.....	4
Ozonometer.			
Moffat (0—10)	0·00	.....	——
Schonbein (0—10)	0·00	.....	——
	INS.		INS.
Daily Evaporation	0·024	.....	0·029
Weekly Evaporation	0·168	.....	0·203

The total number of oscillations of the barometer during the week, was 6, and the amount 0·694 ins., which is a very small amount. The mean temperature of the week was 1·6° above the average of the last eleven years. The first three days possessed a temperature considerably above the average; a sudden depression on the night of the 30th, and morning of the 31st, was accompanied by a dense fog. The temperature at 8 a.m., upon the 3rd November, was 19·5° below the temperature at the same hour upon the 28th October. No ozone was detected during the week. The mean temperature of the week was slightly in excess at Old Trafford over that at Sale. The fall of rain for the month of October has been 3·428 ins., this was 0.154 ins., above the average of the last ten years, and 0·326 ins. above Dr. Dalton's forty-seven years average; it fell upon twenty-two days, which is three days above the ten years average.

G. V. VERNON, F.R.A.S.

Old Trafford, Manchester,
November 7th, 1860.

MANCHESTER AND SALF

New Cases of Disease coming under Treatment in Pauper, Ch

During the Week ending S

	MANCHESTER.																
Area in Statute Acres	Manchester Township 1,645																
Population in 1851	,, ,, 198,162																
DISEASES.	Poor Law Districts.							Public Institutions.									
									Royal Infirmary.					For Children			
	1 Deansgate.	2 Ancoats.	3 St. George's.	4 Market Street.	5 St. Jude's.	6 St. Michael's.	Total of Districts.	7 Workhouse.	8 In-patients.	9 Out-patients.	10 District I.	11 District II.	12 District III.	13 St. Mary's Hospital.	14 General Hospital.	15 Clinical Hospital.	
Small-pox	..	..	..	..	..	..	..	1*	1	..	..	..	..	2	..	..	
Chicken-pox	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	
Measles	..	..	..	..	..	..	..	1	..	..	..	..	2	..	..	..	
Scarlatina	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..	
Diphtheria	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
Whooping-cough	..	..	..	..	..	..	..	..	..	..	..	..	..	3	..	..	
Croup	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
Diarrhœa	..	1	1	..	..	1	3	1	..	..	1	..	1	5	..	1	
Dysentery	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
Cholera	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
Continued Fever	..	..	2	..	1	..	3	1	3	..	..	..	..	4	..	5	
Erysipelas	..	..	3	..	..	..	3	..	..	1	1	1	1	..	..	..	
Puerperal Fever	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	
Rheumatism	..	..	1	..	..	..	1	3	6	8	..	1	1	..	..	..	
Constitutional Syphilis	..	..	..	..	..	..	..	2	..	2	..	..	..	..	..	1	
Phthisis	..	..	..	..	..	2	2	6	1	17	1	..	1	..	..	..	
Mesenteric Disease	..	..	..	..	..	..	..	2	..	..	..	..	..	1	..	..	
Disease of Heart	..	..	1	..	..	..	1	2	1	7	1	..	..	..	..	..	
Insanity	..	..	..	..	..	..	..	6	..	..	..	..	..	..	..	..	
Bronchitis	..	5	..	4	..	..	9	11	1	45	6	2	2	8	..	4	
Influenza and Catarrh	..	..	1	..	3	2	6	8	..	11	..	..	..	2	..	..	
Pleurisy	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
Pneumonia	..	..	..	..	..	..	..	..	1	..	..	..	..	2	..	3	
Dyspepsia	..	..	..	..	..	..	..	2	2	19	..	..	..	1	..	2	
Kidney Disease	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	
Neuralgic Affections	..	..	..	..	..	..	..	..	..	11	1	..	..	..	..	..	
Carbuncle	..	..	1	..	..	..	1	1	..	..	..	..	..	..	..	..	
Ophthalmia	..	..	..	..	..	..	..	3	..	1	..	..	..	4	..	..	
Accidents and diseases not classified	..	5	4	6	3	8	26	33	32	240	2	9	9	48	..	4	
Total	..	11	14	10	7	13	55	84	48	362	14	14	17	81	..	20	

* Had been Vaccinated.

NITARY ASSOCIATION.

ublic Institutions of Manchester and adjoining Districts,

d day of November, 1860.

SALFORD.				HULME.			CHORLTON.		ARDWICK				
...1,329.....				.... 477.....			.. 646...		508	....	...	.....	Area in Statute Acres.
. 63,851.				.. 53,470. ..			.. 35,546 ..		16180	....	....	.....	Population in 1851.
LAW ICTS	PUBLIC INSTITUTIONS.			POOR LAW DISTRICTS.									
Regent Road. 18	Workhouse. 19	Dispensary. 20	New Bailey 21	St. George's. 22	Medlock. 23	St. Philip's 24	Poor Law District. 25	Dispensary. 26	Poor Law District. 27	Ardwick & Ancoats Dispensary. 28	Chorlton Union Workhouse. 29	Total.	DISEASES.
..	..	1	..	..	..	..	..	..	..	..	..	5	Small-pox
..	..	..	..	..	..	..	..	..	..	..	..	1	Chicken-pox
..	..	3	..	..	..	..	..	4	..	1	..	11	Measles
..	..	..	..	..	..	..	..	..	..	..	..	1	Scarlatina
..	..	..	.	1	..	..	..	..	..	..	..	1	Diphtheria
..	..	2	..	..	..	..	..	..	..	..	..	5	Whooping-cough
..	..	..	..	..	..	..	..	..	..	..	..	..	Croup
..	1	..	3	1	..	..	..	1	..	..	3	22	Diarrhœa
..	..	..	..	..	..	..	..	..	..	..	..	..	Dysentery
..	..	..	..	..	..	..	..	..	..	..	..	..	Cholera
..	..	1	..	..	1	3	..	3	..	2	..	29	Continued Fever
..	..	..	..	1	1	..	..	..	..	..	..	9	Erysipelas
..	..	..	..	..	..	..	..	..	..	..	..	1	Puerperal Fever
..	2	6	2	..	1	..	1	7	3	4	2	48	Rheumatism
..	..	1	1	..	..	..	..	2	..	1	..	10	Constitutional Syphilis
..	1	3	1	..	1	1	..	2	..	1	..	40	Phthisis
..	..	1	..	..	..	..	..	..	..	..	..	4	Mesenteric Disease
..	..	..	..	..	..	..	..	1	1	..	..	14	Disease of Heart
..	2	..	..	1	..	..	..	..	..	..	7	16	Insanity
..	1	19	1	3	1	4	1	10	..	7	4	140	Bronchitis
..	2	7	7	..	..	1	..	1	..	6	..	51	Influenza and Catarrh
..	..	..	1	..	..	..	..	..	..	..	..	1	Pleurisy
..	..	..	..	..	..	..	..	..	..	..	1	7	Pneumonia
..	..	3	..	..	2	4	..	2	..	2	..	40	Dyspepsia
..	..	1	..	..	..	..	..	..	..	..	1	3	Kidney Disease
..	..	..	..	..	..	..	..	..	..	..	..	12	Neuralgic Affections
..	1	1	..	..	..	..	..	..	..	..	..	4	Carbuncle
..	..	..	1	..	..	..	..	..	..	1	2	12	Ophthalmia
..	8	55	12	1	3	6	..	25	..	59	4	580	Accidents and diseases not classified
..	18	104	29	8	10	19	2	58	4	84	24	1067	Total

Medical Officers to whom the Association is indebted for the annexed Returns.

(1) Mr. T. W. DYSON,
(2) ,, JOHN ARMSTRONG,
(3) ,, J. O. FLETCHER,
(4) ,, C. S. BOMPAS,
(5) ,, EVAN THOMAS,
(6) ,, T. F. BROWNBILL,
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(28) ,, N. PICKFORD,
(29) ,, GEO. GREAVES.

|| Returns not received or received too late for publication.

Weekly Return of Births and Deaths in Manchester and Salford.

Causes of Death.	Ancoats District, Mr. Royston.	St. George's Dis., Mr. Worthington.	Market-st. Dis., Mr. A. Gardiner.	London-rd. Dis., Dr. Johns.	Deansgate Dis., Mr. Leigh.	Greengate Dis., Mr. Bower.	Regent-rd. Dis., Mr. Tipple.	Chorlton-on-M., Mr. Rowley.	Hulme Township, Mr. Sorby.	Ardwick Tnshp., Mr. Hallsworth.	TOTAL.
Small Pox	.	..	1	..	..	..	1	..	..	..	2
Measles	2	3	1	..	..	..	..	..	1	..	7
Scarlatina	..	..	..	..	..	..	..	..	1	..	1
Diarrhœa	..	2	1	1	..	1	2	..	1	..	8
Fever	1	..	1	..	1	..	..	1	6	..	10
Diseases of the Lungs	11	11	..	7	5	2	..	3	1	..	40
Other causes	9	13	16	5	2	4	7	7	17	6	86
TOTAL NO. OF DEATHS.	23	29	20	13	8	7	10	11	27	6	154
TOTAL NO. OF BIRTHS.	41	38	14	16	21	33	33	32	41	15	284

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Contributors are requested to forward their communications not later than the Monday in the week following that to which they relate.

The Committee would also be glad to receive any other information respecting the Health of the several districts.

COMMITTEE ROOMS,
59, KING STREET, MANCHESTER.

Powlson and Sons, Printers, Bow Street, John Dalton Street, Manchester.

HEALTH AND METEOROLOGY OF MANCHESTER.

COMMUNICATED TO THE

Manchester and Salford Sanitary Association.

WEEKLY RETURN.

VOL. I.] WEEK ENDING SATURDAY, NOVEMBER 10, 1860. [No. 15.

METEOROLOGICAL OBSERVATIONS, TAKEN AT MANCHESTER AND THE NEIGHBOURHOOD, DURING THE WEEK ENDING SATURDAY, NOVEMBER 10, 1860.

	Old Trafford, G. V. VERNON, ESQ.		Sale, J. CURTIS, ESQ.		Bowdon, Alderman NEILD.
Barometer.	INS.		INS.		INS.
Mean @ 32° F	30·221	.....	30·210	.....	
Highest (Unreduced)	30·521	.....	30·482	.....	
Lowest (Unreduced)	29·932	.....	29·948	.....	
Range	0·589	.....	0·534	.....	
Temperature.					
Adopted Mean	42·2	.....	40·8	.....	41·6
Range for Week	14·8	.....	17·7	.....	18·3
Daily Range	7·7	.....	10·8	.....	9·6
Maximum in Shade	49·0	.....	49·2	.....	52·6
Minimum in Shade	34·2	.....	31·5	.....	34·3
Maximum in Sun	53·8	.....	56·5	.....	71·8
Maximum in Sun: Black bulb in Vacuo	59·8	.....	—	.....	—
Minimum on Grass	28·5	.....	26·5	.....	29·0
Temperature in Ground at surface	40·99	.....	39·62	.....	
Temperature 6 inches below	41·58	.....	41·30	.....	
Temperature 12 inches below	43·72	.....	44·15	.....	
Temperature of Evaporation	40·1	.....	38·7	.....	
Temperature of Dew Point	37·5	.....	36·1	.....	
Temperature of Air—Dew Point	4·7	.....	4·7	.....	
Hygrometrical condition of the Atmosphere.	GRS.		GRS.		GRS.
Weight of Vapour in a cubic foot of Air	2·60	.....	2·46	.....	
Required to Saturate do	0·52	.....	0·52	.....	
Weight of a cubic foot of Air	557·9	.....	559·1	.....	
Degree of Humidity (Saturation—1,000)	0·843	.....	0·840	.....	
	INS.		INS.	.....	GRS.
Water in a vertical column of the Atmosphere	3·11	.....	2·95	.....	
Elastic force of Vapour	0·225	.....	0·213	.....	
Clouds (Covered—10 Clear—0)	7·1	.....	7·0	.....	
Prevailing Winds	N.E.	.....	N.E. & S.E.		S.E.
Rain	0·002	.....	0·030	.....	0·040
Days on which it fell	1	.....	2	.....	1
Ozonometer.					
Moffat (0—10)	0·00	.....	—	.....	
Schonbein (0—10)	0·00	.....	—	.....	
	INS.		INS.		
Daily Evaporation	0·044	.....	0·042	.....	
Weekly Evaporation	0·308	.....	0·294	.....	

There were 5 barometric oscillations during the week, the total amount being 1·115 inches. The mean temperature was 1·7° below the average of the last eleven years; and, during the week, the temperature was remarkably uniform, varying very little on contiguous days The barometer reading upon the 7th was higher than any reading since the 13th of February, the reading on that date at 11 p.m. being 30·633 inches, or 0·122 in excess of the reading upon the 7th. The mean temperature of the week appears to have been the highest at Old Trafford, and the lowest at Sale, the greatest range for the week being at Bowdon. The fall of rain for the first ten days in November has been remarkably small, having been only 0·047 inches against upwards of two and a half inches in the same period last year. No ozone has been detected during the week.

G. V. VERNON, F.R.A.S.

Old Trafford, Manchester,
November 14th, 1860.

MANCHESTER AND SALI

New Cases of Disease coming under Treatment in Pauper, C

During the Week ending S

	MANCHESTER.															
Area in Statute Acres	Manchester Township 1,645															
Population in 1851	" " 198,162															
	Poor Law Districts.							Public Institutions.								
									Royal Infirmary.					For Children		
DISEASES.		2 Ancoats.	3 St. George's.	4 Market Street.	5 St. Jude's.	6 St. Michael's.	Total of Districts.	7 Workhouse.	8 In-patients.	9 Out-patients.	10 District I.	11 District II.	12 District III.	13 St. Mary's Hospital.		15 Clinical Hospital.
Small-pox	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..
Chicken-pox	..	..	..	..	..	..	..	..	..	..	..	..	..	3	..	..
Measles	..	..	..	..	..	1	1	..	..	..	..	..	..	..	..	..
Searlatina	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	1
Diphtheria	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Whooping-cough	..	1	..	..	..	..	1	..	..	..	..	..	..	..	..	1
Croup	..	..	1	..	..	..	1	..	..	..	..	..	..	..	..	..
Diarrhœa	..	..	1	1	1	..	3	3	..	..	..	..	..	7	..	2
Dysentery	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..
Cholera	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Continued Fever	..	..	..	2	1	..	3	3	2	2	..	..	..	2	..	..
Erysipelas	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..
Puerperal Fever	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Rheumatism	..	..	..	1	..	..	1	4	..	15	2	4	1	1	..	..
Constitutional Syphilis	..	..	..	1	..	..	1	2	..	4	..	..	..	..	..	..
Phthisis	..	..	..	..	..	2	2	1	2	12	2	4	1	1	..	..
Mesenteric Disease	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..
Disease of Heart	..	..	1	..	..	..	1	1	..	5	2	..	..	..	..	..
Insanity	..	..	..	..	..	..	..	2	..	..	..	..	..	..	..	..
Bronchitis	..	1	3	1	..	..	5	15	1	54	9	3	3	6	..	4
Influenza and Catarrh	..	..	..	..	4	3	7	1	..	10	..	..	..	4	..	..
Pleurisy	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Pneumonia	..	..	..	..	..	..	..	1	1	..	..	..	1	1	..	4
Dyspepsia	..	..	1	..	1	..	2	3	2	18	2	..	1	1	..	1
Kidney Disease	..	..	..	..	..	..	..	2	..	..	..	..	..	..	..	..
Neuralgic Affections	..	..	..	..	..	..	..	..	..	7	..	1	..	..	..	1
Carbuncle	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..
Ophthalmia	..	..	..	..	..	..	..	..	..	2	..	..	..	*8	..	1
Accidents and diseases not classified	..	1	..	2	6	7	16	29	47	202	5	8	8	40	..	13
Total	..	3	7	8	13	13	44	68	55	331	23	21	15	77	..	28

* Including four cases of purulent Ophthalmia.

† Including three cases of Whitlow.

NITARY ASSOCIATION.

Public Institutions of Manchester and adjoining Districts,

th day of November, 1860.

SALFORD.				HULME.			CHORLTON.		ARDWICK				
....1,329.				.... 477.			.. 646.		508	....	....	.....	Area in Statute Acres.
.. 63,851.				.. 53,470.			.. 35,546		16180	....	....	.....	Population in 1851.
LAW RICTS	PUBLIC INSTITUTIONS.			POOR LAW DISTRICTS.									
Regent Road. 18	Workhouse. 19	Dispensary. 20	New Bailey 21	St. George's. 22	Medlock. 23	St. Philip's 24	Poor Law District. 25	Dispensary. 26	Poor Law District. 27	Ardwick & Ancoats Dispensary. 28	Chorlton Union Workhouse. 29	Total.	DISEASES.
..	..	..	..	..	..	..	..	..	..	..	..	1	Small-pox
..	..	..	..	..	..	..	..	..	..	..	..	3	Chicken-pox
..	..	..	..	..	..	..	..	1	..	..	..	2	Measles
..	..	..	..	..	1	..	..	..	..	..	..	3	Scarlatina
..	..	..	.	..	..	..	..	..	..	..	..	..	Diphtheria
..	..	1	..	..	..	..	..	..	..	..	..	3	Whooping-cough
..	..	..	..	..	..	..	..	..	..	..	..	1	Croup
..	1	1	2	..	..	1	..	1	.	1	1	23	Diarrhœa
..	..	..	..	..	..	..	..	..	..	..	..	1	Dysentery
..	..	..	..	..	..	..	..	..	..	..	..	..	Cholera
..	1	3	..	..	..	1	1	8	1	3	..	33	Continued Fever
..	1	..	..	..	..	..	..	1	..	..	..	3	Erysipelas
..	..	..	..	..	..	..	..	..	..	..	..	..	Puerperal Fever
..	2	..	1	..	1	1	..	2	1	1	1	39	Rheumatism
..	1	..	..	..	..	..	..	..	..	..	..	9	Constitutional Syphilis
..	..	6	..	1	..	1	1	2	..	1	1	38	Phthisis
..	..	1	..	1	..	..	..	1	..	..	..	4	Mesenteric Disease
..	..	1	..	..	..	..	..	..	..	..	..	10	Disease of Heart
..	5	..	..	..	..	..	..	..	..	..	1	8	Insanity
..	1	22	..	1	1	3	..	10	..	8	1	149	Bronchitis
..	1	3	6	1	1	3	1	8	..	1	..	48	Influenza and Catarrh
..	..	..	..	..	..	..	..	1	..	1	..	2	Pleurisy
..	..	..	..	..	..	..	..	2	..	..	1	11	Pneumonia
..	..	4	..	..	2	..	..	3	..	..	1	41	Dyspepsia
..	..	2	..	..	..	..	..	1	..	..	..	6	Kidney Disease
..	..	2	..	..	..	..	..	1	..	..	..	12	Neuralgic Affections
..	..	1	..	..	..	..	..	..	..	..	..	2	Carbuncle
..	..	1	..	..	..	..	..	2	..	..	..	15	Ophthalmia
..	1	79	10	5	3	7	+10	27	1	46	3	565	Accidents and diseases not classified
..	14	126	20	9	9	17	13	71	3	62	10	1032	Total

Medical Officers to whom the Association is indebted for the annexed Returns.

(2) Mr. T. W. DYSON,
(3) ,, JOHN ARMSTRONG,
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(5) ,, C. S. BOMPAS,
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Weekly Return of Births and Deaths in Manchester and Salford.

Causes of Death.	Ancoats District, Mr. Royston.	St. George's Dis., Mr. Worthington.	Market-st. Dis., Mr. A. Gardiner.	London-rd. Dis., Dr. Johns.	Deansgate Dis., Mr. Leigh.	Greengate Dis., Mr. Bower.	Regent-rd. Dis., Mr. Tipple.	Chorlton-on-M., Mr. Rowley.	Hulme Township, Mr. Sorby.	Ardwick Tnshp., Mr. Hallsworth.	TOTAL.
Small Pox	..	..	..	..	..	..	..	..	..	..	..
Measles	..	..	..	..	..	..	..	..	1	..	1
Scarlatina	.	..	..	..	..	..	..	..	..	..	..
Diarrhœa	1	1	2	1	..	..	..	1	..	..	6
Fever	1	..	2	..	..	1	*1	1	2	..	8
Diseases of the Lungs ..	9	7	..	3	2	4	1	4	3	4	37
Other causes.....	8	8	18	12	4	6	9	1	28	2	96
TOTAL NO. OF DEATHS.	19	16	22	16	6	11	†11	7	34	6	148
TOTAL NO. OF BIRTHS.	46	26	7	17	14	44	25	32	65	17	293

* Typhus. † Much below the average.

Monthly Return of New Cases of Disease coming under Treatment

In 11 *Charitable Institutions in St Marylebone, LONDON.*

In Pauper, Charitable, and Public Institutions in MANCHESTER and SALFORD.

5 Weeks ending 29th September.	4 Weeks ending 27th October.		TOTAL.	DISEASES.	5 Weeks ending 29th September.	4 Weeks ending 27th October.		TOTAL.
6	14	....	20	.... Small-pox	4	5	....	9
15	18	....	33	.... Chicken-pox	3	8	....	11
62	61	....	123	.... Measles	27	12	....	39
33	26	....	59	.... Scarlatina	16	14	....	30
..	..	....	....	.... Diphtheria	3	..	....	3
17	41	....	58	.. Whooping-cough ..	5	10	....	15
2	..	....	2	..... Croup	1	..	....	1
600	264	....	864	.....Diarrhœa.. ...	309	165	....	474
5	5	....	10	.... Dysentery	29	25	....	54
1	1	....	2	..... Cholera	..	..	....	....
30	35	....	65	.. Continued Fever ..	123	137	....	260
13	8	....	21	.... Erysipelas	14	27	....	41
1	..	....	1	.. Puerperal Fever ..	1	2	....	3
43	61	....	104	.... Rheumatism	152	139	....	291
17	18	....	35	..... Insanity	46	24	....	70
479	596	....	1075	Bronchitis and Catarrh	668	645	....	1313
11	13	....	24	..... Pleurisy	17	11	....	28
9	14	....	23	... Pneumonia	38	46	....	84
4	4	....	8	.... Carbuncle	5	10	....	15
4027	3298	....	7325	Accidents, and all other Diseases	3321	2806	....	6127
5375	4477	....	9852	..... TOTAL	4782	4086	....	8868

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Manchester and Salford Sanitary Association.

WEEKLY RETURN.

VOL. I.] WEEK ENDING SATURDAY, NOVEMBER 17, 1860. [No. 16.

METEOROLOGICAL OBSERVATIONS, TAKEN AT MANCHESTER AND THE NEIGHBOURHOOD, DURING THE WEEK ENDING SATURDAY, NOVEMBER 17, 1860.

	Royal Infirmary, M. R. Day, Esq.	Old Trafford, G. V. Vernon, Esq.	Sale, J. Curtis, Esq.	Bowdon, Alderman Neild.
Barometer.	INS.	INS.	INS.	INS.
Mean @ 32° F	—	29·417	29·443	—
Highest (Unreduced)	—	29·864	29·856	—
Lowest (Unreduced)	—	29·004	29·044	—
Range	—	0·860	0·812	—
Temperature.				
Adopted Mean	40·7	39·1	38·6	39·2
Range for Week	15·0	19·2	22·0	18·2
Daily Range	5·7	9·2	11·2	10·2
Maximum in Shade	50·0	50·2	50·5	49·0
Minimum in Shade	35·0	31·0	28·5	30·8
Maximum in Sun	—	61·0	56·8	66·5
Maximum in Sun: Black bulb in Vacuo	—	71·5	—	—
Minimum on Grass	—	26·7	27·0	26·0
Temperature in Ground at surface	—	39·67	37·40	—
Temperature 6 inches below	—	40·63	41·11	—
Temperature 12 inches below	—	42·63	43·23	—
Temperature of Evaporation	39·3	37·9	36·7	—
Temperature of Dew Point	37·6	36·3	34·1	—
Temperature of Air—Dew Point	3·1	2·8	4·5	—
Hygrometrical condition of the Atmosphere.	GRS.	GRS.	GRS.	GRS.
Weight of Vapour in a cubic foot of Air	2·62	2·47	2·28	—
Required to Saturate do	0·35	0·34	0·48	—
Weight of a cubic foot of Air	544·7	545·8	547·7	—
Degree of Humidity (Saturation—1,000)	0·888	0·904	0·850	—
	INS.	INS.	INS.	INS.
Water in a vertical column of the Atmosphere	3·11	3·15	2·71	—
Elastic force of Vapour	0·225	0·228	0·196	—
Clouds (Covered—10 Clear—0)	—	7·3	6·9	—
Prevailing Winds		N.E. & S.	S.W.	S.W. & E.
Rain	—	1·296	1·230	0·930
Days on which it fell	—	4	5	3
Ozonometer.				
Moffat (0—10)	—	0·86	—	—
Schonbein (0—10)	—	0·00	—	—
		INS.	INS.	
Daily Evaporation	0·029	0·010	0·038	—
Weekly Evaporation	0·203	0·070	0·266	—

There were 6 barometric oscillations during the past week, the total amount being 1·618 inches. The lowest barometer reading occurred upon the night of the 14th, and was accompanied by high winds and heavy rains. Heavy showers of hail fell at intervals from 6 to 9 p.m. upon the 15th. The mean temperature of the week was 1·2° below the average of the last eleven years. Ozone was detected at Old Trafford on two days during the week.

This return shows clearly the effect produced upon the temperature as we recede from densely populated districts; in the town the daily and weekly ranges of temperature are much less than in the country; the weekly range during the week at the Royal Infirmary having been one third less than at Sale, and the mean daily range only about half the amount at Sale. The mean temperature at Sale was 2·1° below that at the Royal Infirmary, whilst the maximum temperatures in the shade were nearly all alike, that at Bowdon being the lowest. The amount of rain at Bowdon appears to have been about one third less than at Sale or Old Trafford.

G. V. VERNON, F.R.A.S.

Old Trafford, Manchester,
November 25th, 1860.

MANCHESTER AND SA

New Cases of Disease coming under Treatment in Pauper

During the Week endin

	MANCHESTER.														
Area in Statute Acres	Manchester Township 1,645														
Population in 1851	" " 198,162														
	Poor Law Districts.						Public Institutions.								
								Royal Infirmary.					Children		
DISEASES.	1 Ancoats.	2 St. George's.	3 Market Street.	4 St. Jude's.	5 St. Michael's.	Total of Districts.	6 Workhouse.	7 In-patients.	8 Out-patients.	9 District I.	10 District II.	11 District III.	12 St. Mary's Hospital.	13 Clinical Hospital.	14 City Gaol.
Small-pox	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.
Chicken-pox	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.
Measles	..	..	2	..	..	2	..	..	..	..	..	..	..	..	.
Scarlatina	..	..	1	..	..	1	..	..	..	..	..	..	..	..	.
Diphtheria	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.
Whooping-cough	..	..	..	..	..	..	..	..	1	..	..	..	..	..	.
Croup	..	..	..	..	..	..	..	..	..	..	..	..	1	..	.
Diarrhœa	..	1	1	..	..	2	1	..	3	..	..	1	5	2	.
Dysentery	..	..	1	..	..	1	..	..	..	..	..	..	1	..	.
Cholera	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.
Continued Fever	..	..	..	..	..	..	3	1	..	..	..	..	1	*5	
Erysipelas	..	..	..	..	1	1	..	..	1	..	1	1	..	..	.
Puerperal Fever.....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.
Rheumatism	4	..	1	..	..	5	7	1	10	3	1	2	..	..	.
Constitutional Syphilis	..	..	..	..	..	..	3	..	16	..	..	..	..	..	.
Phthisis	1	..	..	..	..	1	3	1	19	1	..	1	..	..	..
Mesenteric Disease	..	..	..	1	..	1	..	..	1	..	..	..	2	..	..
Disease of Heart	..	..	..	..	..	..	..	1	7	..	1	1	..	..	..
Insanity	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..
Bronchitis	..	1	2	..	..	3	13	1	65	8	..	10	9	†7	
Influenza and Catarrh	..	1	..	5	1	7	4	..	14	3	..	..	1	..	..
Pleurisy	..	..	..	..	..	..	..	1	3	..	..	..	..	..	..
Pneumonia.....	..	..	..	..	..	..	..	..	..	3	..	1	1	1	..
Dyspepsia	..	..	..	..	1	1	2	1	28	2	..	..	1	3	1
Kidney Disease	..	..	..	..	..	..	..	..	1	..	..	1	..	..	..
Neuralgic Affections	..	..	..	..	..	..	..	..	3	..	..	..	..	..	..
Carbuncle	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Ophthalmia.....	..	..	..	..	..	..	..	..	2	..	..	1	2	..	..
Accidents and diseases not classified	1	4	3	3	..	11	42	33	173	6	6	9	29	6	2
Total.....	6	7	11	9	3	36	79	40	347	26	9	28	53	24	6

* Decided forms of continued fever of considerable severity, and much on the increase.
† Several cases of capillang bronchitis; other cases already under treatment have changed to pneumonia.

SANITARY ASSOCIATION.

nd Public Institutions of Manchester and adjoining Districts,

17*th day of November*, 1860.

SALFORD.				HULME.			CHORLTON.		ARDWICK				
1,329				477			646		508				Area in Statute Acres.
63,851				53,470			35,546		16180				Population in 1851.
Regent Road.	Public Institutions.			Poor Law Districts.									
16	17 Workhouse.	18 Dispensary.	19 New Bailey	20 St. George's.	21 Medlock.	22 St. Philip's	23 Poor Law District.	24 Dispensary.	25 Poor Law District.	26 Ardwick & Ancoats Dispensary.	27 Chorlton Union Workhouse.	Total.	DISEASES.
..	..	..	..	..	..	..	..	..	..	..	..	..	Small-pox
..	..	..	..	..	..	..	..	..	..	..	..	..	Chicken-pox
..	..	..	..	..	..	..	..	1	..	..	..	3	Measles
..	..	..	..	..	..	1	..	..	..	..	1	3	Scarlatina
..	..	..	.	..	..	..	..	..	..	..	..	..	Diphtheria
..	..	..	..	..	..	..	..	..	..	..	..	1	Whooping-cough
..	..	..	..	..	..	..	..	..	..	..	..	1	Croup
..	1	1	1	1	1	2	..	..	..	2	2	25	Diarrhœa
..	..	..	..	..	..	..	..	..	..	..	..	2	Dysentery
..	..	..	..	..	..	..	..	..	..	..	..	..	Cholera
..	..	..	..	1	1	..	1	4	..	2	..	21	Continued Fever
..	..	..	..	..	..	1	..	1	..	..	1	7	Erysipelas
..	..	..	..	..	..	..	..	..	..	..	..	..	Puerperal Fever
..	1	2	..	2	1	..	..	..	1	3	1	40	Rheumatism
..	2	..	..	..	..	..	..	2	..	1	..	24	Constitutional Syphilis
..	..	1	..	2	..	1	1	2	..	2	2	37	Phthisis
..	..	1	..	..	..	..	..	..	..	..	..	5	Mesenteric Disease
..	..	2	..	..	..	..	..	..	..	..	..	12	Disease of Heart
..	2	..	..	..	..	..	..	1	..	..	2	7	Insanity
..	..	16	2	..	1	7	..	7	1	11	1	167	Bronchitis
..	4	5	6	4	2	4	..	4	3	2	2	65	Influenza and Catarrh
..	..	..	..	..	..	..	..	1	..	..	..	5	Pleurisy
..	..	..	..	..	..	..	..	..	..	..	..	6	Pneumonia
..	1	5	1	..	..	1	..	5	..	2	..	54	Dyspepsia
..	..	..	..	..	..	..	1	1	..	..	..	5	Kidney Disease
..	..	..	..	..	..	..	..	..	..	..	..	3	Neuralgic Affections
..	..	..	..	..	..	..	..	..	..	..	..	..	Carbuncle
..	..	..	..	..	..	..	..	..	1	..	2	8	Ophthalmia
..	3	63	14	4	3	4	2	24	4	43	..	487	Accidents and diseases not classified
..	14	96	24	14	9	21	5	53	10	68	14	988	Total

Medical Officers to whom the Association is indebted for the annexed Returns.

(1) Mr. T. W. DYSON,
(2) " JOHN ARMSTRONG,
(3) " J. O. FLETCHER,
(4) " C. S. BOMPAS,
(5) " EVAN THOMAS,
(6) " J. BROADBENT,

(7) Mr. M. ROWLAND DAY,
(8) (9) (10) (11) (12) Dr. JOHN MEDD, Mr. J. S. DAVIES, " W. J. MALLETT, " H. RUNCORN,

(13) Dr. WHITEHEAD,
(14) Mr. W. GOLLAND,
(15) " J. TEALE,
(16) " M. O. LARMUTH,
(17) " T. F. BROWNBILL

(18) Mr. J. O. BRADBURY,
(19) " W. B. STOTT,
(20) " T. G. RICHMOND,
(21) Dr. ALEX. WILSON,
(22) Mr, H.M. WILLIAMSON.

(23) Mr. W. B. MIDWOOD,
(24) " E. HALLEY,
(25) " J. M. KIRKMAN.
(26) " N. PICKFORD,
(27) " GEO. GREAVES.

|| Returns not received or received too late for publication.

Weekly Return of Births and Deaths in Manchester and Salford.

Causes of Death.	Ancoats District, Mr. Royston.	St. George's Dis., Mr. Worthington.	Market-st. Dis., Mr. A. Gardiner.	London-rd. Dis., Dr. Johns.	Deansgate Dis., Mr. Leigh.	Greengate Dis., Mr. Bower.	Regent-rd. Dis., Mr. Tipple.	Chorlton-on-M., Mr. Rowley.	Hulme Township, Mr. Sorby.	Ardwick Tnshp., Mr. Hallsworth.	TOTAL.
Small Pox	..	..	..	..	..	..	..	..	..	..	..
Measles	1	1	..	..	2	..	..	..	..	..	4
Scarlatina	.	..	..	..	..	..	..	..	..	..	..
Diarrhœa	..	..	..	..	..	..	..	2	1	..	3
Fever	..	1	..	..	2	..	*1	3	..	..	7
Diseases of the Lungs	11	7	..	2	7	5	3	4	7	2	48
Other causes	12	10	33	11	11	9	7	4	18	2	117
TOTAL NO. OF DEATHS.	24	19	33	13	22	14	†11	13	26	4	179
TOTAL NO. OF BIRTHS.	37	40	23	13	15	27	22	21	61	14	273

* Typhus. † Weekly average in the quarters ending 31st December of the last five years, about 18.

Monthly Return of New Cases of Disease coming under Treatment

In 11 *Charitable Institutions in LONDON.*

In Pauper, Charitable, and Public Institutions in MANCHESTER and SALFORD.

5 Weeks ending 29th September.	4 Weeks ending 27th Octeber.		TOTAL.	DISEASES.	5 Weeks ending 29th September.	4 Weeks ending 27th October.		TOTAL.
6	14	....	20	.... Small-pox	4	5	....	9
15	18	....	33	.... Chicken-pox	3	8	....	11
62	61	....	123	..... Measles	27	12	....	39
33	26	....	59	.... Scarlatina	16	14	....	30
..	..	....	....	.... Diphtheria	3	..	....	3
17	41	....	58	.. Whooping-cough ..	5	10	....	15
2	..	....	2	..... Croup	1	..	....	1
600	264	....	864	.....Diarrhœa.. ...	309	165	....	474
5	5	....	10	.... Dysentery	29	25	....	54
1	1	....	2	..... Cholera	..	..	....	....
30	35	....	65	.. Continued Fever ..	123	137	....	260
13	8	....	21	.... Erysipelas	14	27	....	41
1	..	....	1	.. Puerperal Fever ..	1	2	....	3
43	61	....	104	.... Rheumatism	152	139	....	291
17	18	....	35	..... Insanity	46	24	....	70
479	596	....	1075	Bronchitis and Catarrh	668	645	....	1313
11	13	....	24	..... Pleurisy	17	11	....	28
9	14	....	23	... Pneumonia	38	46	....	84
4	4	....	8	.... Carbuncle	5	10	....	15
4027	3298	....	7325	Accidents, and all other Diseases	3321	2806	....	6127
5375	4477	....	9852	..... TOTAL	4782	4086	....	8868

☞ Copies of the "Weekly Return" are regularly forwarded to all Public Institutions from which information is received, also to such public officers as are willing to assist the objects of the compilation. They will also be supplied to the Subscribers upon application to the Secretary, Mr. C. H. Minchin, at the Committee Rooms of the Association.

Contributors are requested to forward their communications not later than the Monday in the week following that to which they relate.

The Committee would also be glad to receive any other information respecting the Health of the several districts.

COMMITTEE ROOMS,
59, KING STREET, MANCHESTER.

Powlson and Sons, Printers, Bow Street, John Dalton Street, Manchester.

HEALTH AND METEOROLOGY OF MANCHESTER.

COMMUNICATED TO THE

Manchester and Salford Sanitary Association.

WEEKLY RETURN.

Vol. I.] WEEK ENDING SATURDAY, NOVEMBER 24, 1860. [No. 17.

METEOROLOGICAL OBSERVATIONS, TAKEN AT MANCHESTER AND THE NEIGHBOURHOOD, DURING THE WEEK ENDING SATURDAY, NOVEMBER 24, 1860.

	Royal Infirmary, M. R. Day, Esq.	Old Trafford, G. V. Vernon, Esq.	Sale, J. Curtis, Esq.	Bowdon, Alderman Neild.
Barometer.	INS.	INS.	INS.	INS.
Mean @ 32° F.	—	29·639	29·654	—
Highest (Unreduced)	—	29·971	29·960	—
Lowest (Unreduced)	—	29·269	29·318	—
Range	—	0·702	0·642	—
Temperature.				
Adopted Mean	40·0	37·3	37·3	38·0
Range for Week	19·0	22·5	26·7	20·3
Daily Range	8·2	12·9	14·2	10·2
Maximum in Shade	51·0	50·5	52·2	50·3
Minimum in Shade	32·0	28·0	25·5	30·0
Maximum in Sun	—	51·0	54·2	64·7
Maximum in Sun: Black bulb in Vacuo	—	60·0	—	—
Minimum on Grass	—	23·2	22·5	26·0
Temperature in Ground at surface	—	37·54	35·78	—
Temperature 6 inches below	—	38·40	38·64	—
Temperature 12 inches below	—	40·23	41·05	—
Temperature of Evaporation	38·1	35·9	35·4	—
Temperature of Dew Point	35·6	34·0	32·8	—
Temperature of Air—Dew Point	4·4	3·3	4·5	—
Hygrometrical condition of the Atmosphere.	GRS.	GRS.	GRS.	GRS.
Weight of Vapour in a cubic foot of Air	2·42	2·25	2·15	—
Required to Saturate do	0·48	0·38	0·48	—
Weight of a cubic foot of Air	549·6	552·7	553·0	—
Degree of Humidity (Saturation—1,000)	0·848	0·881	0·841	
	INS.	INS.	INS.	INS.
Water in a vertical column of the Atmosphere	2·88	2·71	2·57	—
Elastic force of Vapour	0·208	0·196	0·186	—
Clouds (Covered—10 Clear—0)	—	7·3	6·2	—
Prevailing Winds	—	S.E. & N.E.	S.W.	N.W. & S.W.
Rain	—	0·639	0·650	0·540
Days on which it fell	—	4	5	4
Ozonometer.				
Moffat (0—10)	—	0·43	—	—
Schonbein (0—10)	—	0·00	—	—
		INS.	INS.	
Daily Evaporation	0·039	0·027	0·037	—
Weekly Evaporation	0·273	0·189	0·259	—

The number of barometric oscillations during the week, was 4, and the amount 1·991 ins. This is the largest amount of oscillation since the week ending 20th October. The mean temperature of the week was 3·1° below the average of the last eleven years. As might be expected from the large amount of barometric oscillation, there were considerable fluctuation of temperature during the week; between the 18th and the 21st, the temperature at 8 a.m. rose 12·5°, and between the 21st and 23rd, it fell 11·1° at the same hour. Ozone was found upon one day only during the week.

The mean temperature was the lowest at Sale and Old Trafford, and the highest at the Royal Infirmary. The same progression in the weekly range of temperature and mean daily range has existed as in the preceeding week; Bowdon, apparently, should come between the Royal Infirmary and Old Trafford, and then the progressive advance in these data becomes very distinct. Near the town the effect of the overclouding of the sun by a veil of smoke at times, is shown by the diminished reading of the solar maximum thermometer. The rain fall at Bowdon is again less than at either Sale or Old Trafford.

G. V. VERNON, F.R.A.S.

Old Trafford, Manchester,
November 27th, 1860.

MANCHESTER AND SA

New Cases of Disease coming under Treatment in Pauper

During the Week endin

	MANCHESTER.														
Area in Statute Acres	Manchester Township 1,645														
Population in 1851	" " 198,162														
DISEASES.	Poor Law Districts.						Public Institutions.								
								Royal Infirmary.					Children		
	1 Ancoats.	2 St. George's.	3 Market Street.	4 St. Jude's.	5 St. Michael's.	Total of Districts.	6 Workhouse.	7 In-patients.	8 Out-patients.	9 District I.	10 District II.	11 District III.	12 St. Mary's Hospital.	13 Clinical Hospital.	14 City Gaol.
Small-pox	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Chicken-pox	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..
Measles	..	..	1	..	3	4	..	..	..	4	..	..	1	1	..
Scarlatina	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..
Diphtheria	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Whooping-cough	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Croup	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Diarrhœa	..	2	1	..	..	3	1	..	2	..	..	..	4	2	..
Dysentery	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..
Cholera	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Continued Fever	1	..	..	1	1	3	2	..	..	..	..	..	1	1	1
Erysipelas	..	..	..	..	..	..	2	..	2	..	..	..	..	..	..
Puerperal Fever	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Rheumatism	..	1	1	1	..	3	4	2	17	1	1	2	..	..	..
Constitutional Syphilis	..	..	..	..	1	1	..	1	10	..	..	..	3	..	1
Phthisis	..	1	..	..	3	4	3	..	11	5	2	..	..	1	..
Mesenteric Disease	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..
Disease of Heart	..	..	..	..	..	..	..	1	3	2	1	3	..	1	..
Insanity	..	1	1	..	1	3	3	..	..	..	..	..	..	..	..
Bronchitis	..	5	6	..	3	14	16	..	58	15	4	4	9	4	2
Influenza and Catarrh	..	1	..	3	..	4	3	..	12	4	1	..	1	..	1
Pleurisy	..	..	..	..	..	..	2	..	..	..	..	1	1	..	..
Pneumonia	..	..	..	..	..	..	1	1	1	3	..	2	1	..	..
Dyspepsia	..	..	..	..	..	..	..	1	14	3	..	..	1	2	..
Kidney Disease	..	..	..	..	..	..	1	1	..	..	..	..	..	..	..
Neuralgic Affections	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..
Carbuncle	..	1	..	..	..	1	..	..	..	..	..	1	..	..	..
Ophthalmia	..	..	..	1	..	1	2	..	..	..	..	..	2	..	..
Accidents and diseases not classified	3	5	2	8	4	22	48	26	205	8	7	15	23	15	2
Total	4	17	12	14	16	63	88	33	335	46	16	28	50	28	7

ANITARY ASSOCIATION.

d Public Institutions of Manchester and adjoining Districts,

24th day of November, 1860.

ALFORD.			HULME.			CHORLTON.		ARDWICK				
1,329.			477.			646.		508	....	...	.....	Area in Statute Acres.
63,851.			53,470.			35,546		16180	....	....	....	Population in 1851.
W	Public Institutions.		Poor Law Districts.									
6	17 Workhouse.	18 Dispensary.	19 New Bailey	20 St. George's.	21 Medlock.	22 St. Philip's	23 Poor Law District.	24 Dispensary.	25 Poor Law District.	26 Ardwick & Ancoats Dispensary.	27 Chorlton Union Workhouse.	Total.	DISEASES.
.	..	..	..	..	..	..	..	1	..	..	..	1	Small-pox
.	..	..	..	..	..	..	..	..	..	..	..	1	Chicken-pox
.	..	..	..	..	..	..	..	1	..	..	..	11	Measles
.	..	..	..	..	2	..	..	..	..	..	1	4	Scarlatina
.	..	..	.	..	..	..	..	..	..	..	..	..	Diphtheria
.	..	..	..	..	..	..	..	2	..	..	..	2	Whooping-cough
.	..	..	..	..	..	..	..	1	..	..	..	1	Croup
.	1	..	..	..	1	2	..	..	..	2	2	20	Diarrhœa
.	..	..	..	1	..	..	1	..	..	1	..	4	Dysentery
.	..	..	..	..	..	..	..	..	..	..	..	..	Cholera
.	2	..	..	..	2	..	1	2	..	5	1	22	Continued Fever
.	..	1	..	..	..	..	..	2	..	..	1	8	Erysipelas
.	..	..	..	..	..	..	..	..	..	..	..	..	Puerperal Fever
.	1	2	2	..	1	3	..	..	1	5	..	45	Rheumatism
.	..	..	..	..	..	..	2	..	..	2	1	21	Constitutional Syphilis
.	..	3	..	..	1	2	..	6	..	1	1	40	Phthisis
.	..	1	..	..	..	..	1	..	..	1	..	4	Mesenteric Disease
.	2	..	..	..	..	..	..	..	..	..	..	13	Disease of Heart
.	3	..	..	..	..	..	..	..	..	..	2	11	Insanity
.	2	19	2	..	3	4	..	13	2	15	1	188	Bronchitis
.	..	2	9	2	2	5	..	5	..	2	1	54	Influenza and Catarrh
.	..	..	..	..	..	..	..	1	2	2	..	9	Pleurisy
.	..	..	..	..	..	..	..	..	..	..	..	9	Pneumonia
.	..	4	..	..	1	1	..	7	..	4	..	38	Dyspepsia
.	..	..	..	..	..	..	..	..	..	..	..	2	Kidney Disease
.	..	1	..	1	..	1	..	4	..	..	..	8	Neuralgic Affections
.	..	..	..	..	..	..	..	..	..	..	..	2	Carbuncle
.	..	..	..	1	..	..	..	1	..	..	..	8	Ophthalmia
.	12	70	9	1	2	5	4	28	1	46	..	555	Accidents and diseases not classified
.	23	103	22	6	15	23	9	74	6	86	12	1081	Total

Medical Officers to whom the Association is indebted for the annexed Returns.

(1) Mr. T. W. DYSON,
(2) ,, JOHN ARMSTRONG,
(3) ,, J. O. FLETCHER,
(4) ,, C. S. BOMPAS,
(5) ,, EVAN THOMAS,
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(24) ,, E. HALLEY,
(25) ,, J. M. KIRKMAN.
(26) ,, N. PICKFORD,
(27) ,, GEO. GREAVES.

|| Return not received or received too late for publication.

Weekly Return of Births and Deaths in Manchester and Salford.

Causes of Death.	Ancoats District, Mr. Royston.	St. George's Dis., Mr. Worthington.	Market-st. Dis., Mr. A. Gardiner.	London-rd. Dis., Dr. Johns.	Deansgate Dis., Mr. Leigh.	Greengate Dis., Mr. Bower.	Regent-rd. Dis., Mr. Tipple.	Chorlton-on-M., Mr. Rowley.	Hulme Township, Mr. Sorby.	Ardwick Tnshp., Mr. Hallsworth.	TOTAL.
Small Pox	..	..	..	..	..	..	..	..	..	..	..
Measles	..	1	..	..	..	..	..	1	..	..	2
Scarlatina	.	..	..	..	..	..	..	..	..	..	..
Diarrhœa	..	1	1	1	..	..	..	..	1	..	4
Fever	..	1	..	4	..	..	..	1	3	1	10
Diseases of the Lungs	7	9	..	..	5	7	4	4	3	3	42
Other causes	15	8	35	10	4	8	11	4	23	2	120
TOTAL NO. OF DEATHS.	22	20	36	15	9	15	15	10	30	6	178
TOTAL NO. OF BIRTHS.	40	34	16	25	21	29	27	24	52	14	282

Monthly Return of New Cases of Disease coming under Treatment

In 11 *Charitable Institutions in LONDON.*

In Pauper, Charitable, and Public Institutions in MANCHESTER and SALFORD.

5 Weeks ending 29th September.	4 Weeks ending 27th Oeteber.		TOTAL.	DISEASES.	5 Weeks ending 29th September.	4 Weeks ending 27th October.		TOTAL.
6	14	....	20	.... Small-pox	4	5	....	9
15	18	....	33	.... Chicken-pox	3	8	....	11
62	61	....	123	..... Measles	27	12	....	39
33	26	....	59	.... Scarlatina	16	14	....	30
..	..	....	....	.... Diphtheria	3	..	....	3
17	41	....	58	.. Whooping-cough ..	5	10	....	15
2	..	....	2	..... Croup	1	..	....	1
600	264	....	864	.....Diarrhœa.. ...	309	165	....	474
5	5	....	10	.... Dysentery	29	25	....	54
1	1	....	2	..... Cholera	..	..	....	....
30	35	....	65	.. Continued Fever ..	123	137	....	260
13	8	....	21	.... Erysipelas	14	27	....	41
1	..	....	1	.. Puerperal Fever ..	1	2	....	3
43	61	....	104	.... Rheumatism	152	139	....	291
17	18	....	35	..... Insanity	46	24	....	70
479	596	....	1075	Bronchitis and Catarrh	668	645	....	1313
11	13	....	24	..... Pleurisy	17	11	....	28
9	14	....	23	.. Pneumonia	38	46	....	84
4	4	....	8	.... Carbuncle	5	10	....	15
4027	3298	....	7325	Accidents, and all other Diseases	3321	2806	....	6127
5375	4477	....	9852	..... TOTAL	4782	4086	....	8868

☞ Copies of the "Weekly Return" are regularly forwarded to all Public Institutions from which information is received, also to such public officers as are willing to assist the objects of the compilation. They will also be supplied to the Subscribers upon application to the Secretary, Mr. C. H. Minchin, at the Committee Rooms of the Association.

Contributors are requested to forward their communications not later than the Monday in the week following that to which they relate.

The Committee would also be glad to receive any other information respecting the Health of the several districts.

COMMITTEE ROOMS,
59, KING STREET, MANCHESTER.

Powlson and Sons, Printers, Bow Street, John Dalton Street, Manchester.

HEALTH AND METEOROLOGY OF MANCHESTER.

COMMUNICATED TO THE

Manchester and Salford Sanitary Association.

WEEKLY RETURN.

Vol. I.] WEEK ENDING SATURDAY, DECEMBER 1, 1860. [No. 18.

Meteorological Observations, taken at Manchester and the neighbourhood, during the Week ending Saturday, December 1, 1860.

	Royal Infirmary, M. R. Day, Esq.	Old Trafford, G. V. Vernon, Esq.	Sale, J. Curtis, Esq.	Bowdon, Alderman Neild.
Barometer.	INS.	INS.	INS.	INS.
Mean @ 32° F	—	29·547	29·571	—
Highest (Unreduced)	—	29·755	29·766	—
Lowest (Unreduced)	—	29·439	29·450	—
Range	—	0·316	0·316	—
Temperature.				
Adopted Mean	41·9	40·9	40·3	39·3
Range for Week	13·0	16·2	17·5	11·0
Daily Range	5·8	6·9	7·7	5·9
Maximum in Shade	50·0	50·4	50·5	46·0
Minimum in Shade	37·0	34·2	33·0	35·0
Maximum in Sun	—	49·8	50·0	70·0
Maximum in Sun: Black bulb in Vacuo	—	54·3	—	—
Minimum on Grass	—	29·0	30·2	30·6
Temperature in Ground at surface	—	39·05	39·64	—
Temperature 6 inches below	—	39·01	39·34	—
Temperature 12 inches below	—	40·06	40·71	—
Temperature of Evaporation	40·0	38·9	38·2	—
Temperature of Dew Point	36·9	36·4	35·5	—
Temperature of Air—Dew Point	5·0	4·5	4·8	—
Hygrometrical condition of the Atmosphere.	GRS.	GRS.	GRS.	GRS.
Weight of Vapour in a cubic foot of Air	2·61	2·49	2·41	—
Required to Saturate do	0·48	0·50	0·52	—
Weight of a cubic foot of Air	545·6	546·9	548·2	—
Degree of Humidity (Saturation—1,000)	0·857	0·849	0·835	—
	INS.	INS.	INS.	INS.
Water in a vertical column of the Atmosphere	3·03	2·97	2·88	—
Elastic force of Vapour	0·219	0·215	0·208	—
Clouds (Covered—10 Clear—0)	—	9·3	8·1	—
Prevailing Winds	—	N.E. & S.E.	S.E.&N.E.	N.E. & S.E.
Rain	—	0·485	0·650	0·440
Days on which it fell	—	5	4	4
Ozonometer.				
Moffat (0—10)	—	0·14	—	—
Schonbein (0—10)	—	0·00	—	—
	INS.	INS.	INS.	
Daily Evaporation	0·047	0·041	0·042	—
Weekly Evaporation	0·329	0·287	0·294	—

The number of barometric oscillations during the week was 6, and the amount 0.644 inches, this is considerably less than that of the preceding week. The mean temperature of the week was 2·4° below the average of the last eleven years. The five first days of the week possessed a moderately uniform temperature, but upon the two last days there was a sudden advance of from 5° to 6°. Ozone was detected in small quantity upon one day only. It will be seen that, during the past week, the mean temperature has gradually declined from the Royal Infirmary to Bowdon; the greatest range of temperature was at Sale, and the least at Bowdon. The amount of moisture was the greatest in the town, and the least in the country during the past week.

The rain fall for November, at Old Trafford, has been 2·117 inches, and fell upon 15 days; the average of the last eleven years is 2·709 inches, and 15·6 days. Dr. Dalton's 47 years average is 3·712 inches. The fall at Sale was 2·380 inches, and at Bowdon 1·980 inches. November has, evidently, been much drier than usual, although it has rained upon the average number of days.

G. V. VERNON, F.R.A.S.

Old Trafford, Manchester,
December 4th, 1860.

MANCHESTER AND SA

New Cases of Disease coming under Treatment in Paupe

During the Week endi

	MANCHESTER.														
Area in Statute Acres	Manchester Township 1,645														
Population in 1851	,, ,, 198,162														
	Poor Law Districts.						Public Institutions.								
								Royal Infirmary.					Children		
DISEASES.	1 Ancoats.	2 St. George's.	3 Market Street.	4 St. Jude's.	5 St. Michael's.	Total of Districts.	6 Workhouse.	7 In-patients.	8 Out-patients.	9 District I.	10 District II.	11 District III.	12 St. Mary's Hospital.	13 Clinical Hospital.	
Small-pox	..	..	..	..	..	..	1	..	..	..	..	..	*1	..	
Chicken-pox	..	..	..	..	..	..	..	..	..	..	..	..	1	..	
Measles	..	..	1	..	..	1	..	..	..	..	..	..	..	..	
Scarlatina	..	..	..	..	..	..	..	..	..	.	..	..	..	..	
Diphtheria	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
Whooping-cough	..	..	..	..	..	..	..	..	2	..	..	..	..	..	
Croup	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
Diarrhœa	..	..	..	..	..	..	..	..	..	..	1	..	4	2	
Dysentery	..	..	1	..	..	1	..	..	..	..	..	..	..	..	
Cholera	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
Continued Fever	1	2	..	..	3	6	4	1	..	..	1	..	3	3	
Erysipelas	..	..	..	..	1	1	..	..	..	..	..	2	..	..	
Puerperal Fever.....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
Rheumatism	..	2	1	..	..	3	3	5	11	..	1	2	..	..	
Constitutional Syphilis	..	..	..	..	1	1	1	..	13	..	..	..	2	1	
Phthisis	1	..	..	1	1	3	1	..	11	3	3	2	1	..	
Mesenteric Disease	..	..	..	..	..	..	1	..	..	1	..	..	..	2	
Disease of Heart	..	1	..	..	..	1	..	1	7	3	1	..	..	..	
Insanity	..	..	1	..	..	1	3	..	..	..	..	..	..	..	
Bronchitis	..	1	..	2	4	7	15	1	40	12	2	6	9	2	
Influenza and Catarrh	..	2	..	2	1	5	7	..	5	..	..	..	3	..	
Pleurisy	1	..	2	..	..	3	1	..	..	..	1	..	..	..	
Pneumonia.....	..	..	..	..	..	..	..	..	..	1	1	..	1	1	
Dyspepsia	..	..	..	1	..	1	2	..	18	5	1	1	1	2	
Kidney Disease	..	..	..	..	..	..	1	..	..	..	..	..	..	..	
Neuralgic Affections	..	..	..	..	..	..	1	1	1	..	..	..	1	..	
Carbuncle	..	..	..	..	1	1	1	..	..	..	..	..	..	..	
Ophthalmia.....	..	..	..	..	..	..	1	..	1	..	..	..	..	1	
Accidents and diseases not classified	4	5	1	3	6	19	47	39	185	8	6	3	37	5	
Total.....	7	13	7	9	18	54	90	48	294	33	18	16	64	19	

* Fatal case, not vaccinated.

ANITARY ASSOCIATION.

nd Public Institutions of Manchester and adjoining Districts,

1st *day of December*, 1860.

ALFORD.				HULME.			CHORL-TON.		ARD-WICK				
1,329				477			646		508				Area in Statute Acres.
63,851				53,470			35,546		16180				Population in 1851.
W TS	PUBLIC INSTITUTIONS.			POOR LAW DISTRICTS.									
6	17 Workhouse.	18 Dispensary.	19 New Bailey	20 St. George's.	21 Medlock.	22 St. Philip's	23 Poor Law District.	24 Dispensary.	25 Poor Law District.	26 Ardwick & Ancoats Dispensary.	27 Chorlton Union Workhouse.	Total.	DISEASES.
.	..	..	..	..	..	..	..	..	..	..	..	2	Small-pox
.	..	..	..	..	..	..	..	..	..	..	4	5	Chicken-pox
.	..	..	..	..	..	..	..	1	..	..	..	2	Measles
.	..	..	..	..	..	..	..	1	..	..	..	1	Scarlatina
.	..	..	.	..	..	..	..	..	..	..	..	..	Diphtheria
.	..	..	..	..	..	..	..	..	..	..	..	2	Whooping-cough
.	..	..	..	..	..	..	..	..	..	..	..	..	Croup
.	..	1	2	..	1	..	..	1	..	1	2	17	Diarrhœa
.	..	..	..	..	..	..	..	..	..	..	..	1	Dysentery
.	..	..	..	..	..	..	..	..	..	..	..	..	Cholera
.	..	..	..	2	..	..	1	2	..	4	..	29	Continued Fever
.	..	1	..	..	1	..	..	..	..	..	..	5	Erysipelas
.	..	..	..	..	..	..	..	..	..	..	..	..	Puerperal Fever
.	1	3	1	..	..	1	..	2	2	2	2	39	Rheumatism
.	..	..	..	..	..	..	..	..	..	..	1	19	Constitutional Syphilis
.	..	3	..	..	..	1	1	7	..	5	..	41	Phthisis
.	..	..	..	..	..	..	2	..	..	..	..	6	Mesenteric Disease
.	..	..	..	..	..	..	1	..	..	2	..	16	Disease of Heart
.	3	..	..	..	..	..	..	..	..	..	2	11	Insanity
.	4	29	3	3	3	1	3	11	1	12	1	166	Bronchitis
.	1	6	6	..	3	3	1	2	1	2	2	47	Influenza and Catarrh
.	..	3	..	..	..	..	..	..	..	..	..	8	Pleurisy
.	..	..	..	..	..	..	..	..	..	..	..	4	Pneumonia
.	..	6	1	..	2	1	2	5	..	2	..	51	Dyspepsia
.	..	..	..	1	..	..	1	..	..	..	..	3	Kidney Disease
.	..	4	..	1	..	..	..	2	1	1	..	13	Neuralgic Affections
.	1	..	..	..	..	1	..	..	..	..	..	4	Carbuncle
.	..	..	1	..	..	..	..	..	..	..	..	4	Ophthalmia
.	5	75	9	5	4	8	6	23	1	60	2	552	Accidents and diseases not classified
.	15	131	23	12	14	16	18	57	6	91	16	1048	Total

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Small Pox	..	..	..	..	..	..	..	..	..	..	..
Measles	1	..	..	..	..	..	..	1	..	..	2
Scarlatina	1	..	..	..	..	..	..	..	..	..	1
Diarrhœa	..	.	1	..	..	1	..	..	2	..	4
Fever	3	..	1	2	..	1	..	..	..	..	7
Diseases of the Lungs	8	7	..	4	..	8	3	5	2	3	40
Other causes	15	14	41	9	..	8	8	7	15	1	118
TOTAL NO. OF DEATHS.	28	21	43	15	..	18	11	13	19	4	172
TOTAL NO. OF BIRTHS.	38	38	18	18	..	29	16	23	41	16	237

Monthly Return of New Cases of Disease coming under Treatment

In 11 *Charitable Institutions in LONDON.*

In Pauper, Charitable, and Public Institutions in MANCHESTER and SALFORD.

5 Weeks ending 29th September.	4 Weeks ending 27th October.		TOTAL.	DISEASES.	5 Weeks ending 29th September.	4 Weeks ending 27th October.		TOTAL.
6	14	....	20	.... Small-pox	4	5	....	9
15	18	....	33	.... Chicken-pox	3	8	....	11
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33	26	....	59	.... Scarlatina	16	14	....	30
..	..	....	....	.... Diphtheria	3	..	....	3
17	41	....	58	.. Whooping-cough ..	5	10	....	15
2	..	....	2	..... Croup	1	..	....	1
600	264	....	864	.....Diarrhœa.. ...	309	165	....	474
5	5	....	10	.... Dysentery	29	25	....	54
1	1	....	2	..... Cholera	..	..	....	....
30	35	....	65	.. Continued Fever ..	123	137	....	260
13	8	....	21	.... Erysipelas	14	27	....	41
1	..	....	1	.. Puerperal Fever ..	1	2	....	3
43	61	....	104	.... Rheumatism	152	139	....	291
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COMMUNICATED TO THE

Manchester and Salford Sanitary Association.

WEEKLY RETURN.

VOL. I.] WEEK ENDING SATURDAY, DECEMBER 8, 1860. [No. 19.

METEOROLOGICAL OBSERVATIONS, TAKEN AT MANCHESTER AND THE NEIGHBOURHOOD, DURING THE WEEK ENDING SATURDAY, DECEMBER 8, 1860.

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Barometer.	INS.	INS.	INS.	INS.
Mean @ 32° F	—	29·132	29·165	—
Highest (Unreduced)	—	29·565	29·588	—
Lowest (Unreduced)	—	28·728	28·776	—
Range	—	0·837	0·812	—
Temperature.				
Adopted Mean	46·2	45·1	44·9	44·1
Range for Week	10·5	14·0	12·8	12·0
Daily Range	5·1	5·8	6·6	5·0
Maximum in Shade	52·5	53·0	51·6	50·2
Minimum in Shade	42·0	39·0	38·8	38·2
Maximum in Sun	—	54·8	55·0	58·0
Maximum in Sun: Black bulb in Vacuo	—	56·3	—	—
Minimum on Grass	—	34·5	35·6	34·5
Temperature in Ground at surface	—	43·07	43·78	—
Temperature 6 inches below	—	42·87	43·91	—
Temperature 12 inches below	—	43·20	44·17	—
Temperature of Evaporation	44·6	43·7	43·8	—
Temperature of Dew Point	42·8	42·1	42·6	—
Temperature of Air—Dew Point	3·4	3·0	2·3	—
Hygrometrical condition of the Atmosphere.	GRS.	GRS.	GRS.	GRS.
Weight of Vapour in a cubic foot of Air	3·18	3·03	3·15	—
Required to Saturate do	0·34	0·39	0·24	—
Weight of a cubic foot of Air	538·2	534·5	535·1	—
Degree of Humidity (Saturation—1,000)	0·888	0·893	0·921	
	INS.	INS.	INS.	INS.
Water in a vertical column of the Atmosphere	3·80	3·71	3·78	—
Elastic force of Vapour	0·275	0·268	0·273	—
Clouds (Covered—10 Clear—0)	—	7·6	8·4	—
Prevailing Winds	—	S.E.	S.W. & E.	S.E. & E.
Rain	—	2·001	1·880	1·830
Days on which it fell	—	7	6	7
Ozonometer.				
Moffat (0—10)	—	1·00	—	—
Schonbein (0—10)	—	0·00	—	—
	INS.	INS.	INS.	
Daily Evaporation	0·038	0·033	0·025	—
Weekly Evaporation	0·266	0·231	0·175	—

The total number of barometric oscillations during the week was 7, and the amount 1·266 inches. The readings at the end of the week were excessively low. The mean barometer reading for the week is the lowest since the week ending December 31st, 1859.

The mean temperature of the week was 6·6° below the average of the last eleven years, and was warmer than any corresponding week of the series; this week was also more above the average temperature than any week this year.

Ozone occurred upon two days only at Old Trafford.

The mean temperature gradually diminished during the week, as Manchester was receded from, Bowdon being the lowest. The daily range also increased from the Royal Infirmary to Sale, but decreased at Bowdon. The degree of humidity also gradually increased, as the city was receded from. The fall of rain upon the 6th was very heavy, and was the heaviest daily fall this year; the amounts collected on this day were,—Old Trafford, 1·034 ins.; Sale, 1·040 ins.; Bowdon, 1·000 ins.; Thelwall (J. Atkinson, Esq.), 1·170 ins.

High winds prevailed at the early part of the week, but comparative calm accompanied the great depression at the end of the week.

G. V. VERNON, F.R.A.S.

Old Trafford, Manchester,
December 11th, 1860.

MANCHESTER AND SA

New Cases of Disease coming under Treatment in Paupe

During the Week endi

	MANCHESTER.														
Area in Statute Acres	Manchester Township 1,645														
Population in 1851	" " 198,162														
DISEASES.	Poor Law Districts.						Public Institutions.								
								Royal Infirmary.					Children		
	1 Ancoats.	2 St. George's.	3 Market Street.	4 St. Jude's.	5 St. Michael's.	Total of Districts.	6 Workhouse.	7 In-patients.	8 Out-patients.	9 District I.	10 District II.	11 District III.	12 St. Mary's Hospital.	13 Clinical Hospital.	1
Small-pox	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.
Chicken-pox	2	2	..	..	..	4	..	..	..	..	..	..	..	..	.
Measles	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.
Scarlatina	..	..	..	..	..	..	..	1	..	..	1	..	..	..	.
Diphtheria	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.
Whooping-cough	..	..	..	..	..	..	..	..	..	..	..	..	1	..	.
Croup	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.
Diarrhœa	..	1	2	..	1	4	3	..	4	..	1	..	1	2	.
Dysentery	..	..	..	..	..	..	..	..	..	..	..	..	1	..	.
Cholera	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.
Continued Fever	..	..	1	..	..	1	..	1	..	..	..	1	3	3	.
Erysipelas	..	..	..	..	..	..	1	1	..	..	..	3	..	..	.
Puerperal Fever.....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.
Rheumatism	..	1	..	..	1	2	3	3	12	2	5	4	..	..	.
Constitutional Syphilis	..	..	..	..	..	..	2	..	4	1	..	..	2	..	.
Phthisis	1	..	..	..	..	1	6	1	27	5	5	..	2	..	.
Mesenteric Disease	..	..	..	1	..	1	1	..	3	..	..	..	3	..	.
Disease of Heart	..	..	..	1	..	1	3	2	10	..	1	..	..	..	.
Insanity	..	1	..	..	..	1	3	..	..	..	..	..	..	..	.
Bronchitis	2	2	5	2	3	14	12	..	49	9	5	3	7	3	.
Influenza and Catarrh	..	1	..	3	3	7	1	..	15	4	..	..	3	1	.
Pleurisy	..	..	1	..	..	1	1	..	..	..	..	..	..	..	.
Pneumonia.....	..	..	..	..	..	..	2	..	..	..	..	1	1	1	.
Dyspepsia	..	..	..	1	1	2	1	..	24	..	..	..	2	3	
Kidney Disease	..	..	..	..	..	..	1	1	4	..	..	1	..	..	.
Neuralgic Affections	..	..	..	..	..	..	..	1	3	1	2	..	1	..	
Carbuncle	..	..	..	..	..	..	..	..	..	..	..	1	..	..	.
Ophthalmia.....	..	..	..	..	..	..	1	..	..	..	..	..	1	..	.
Accidents and diseases not classified	8	8	6	6	5	33	47	25	170	11	8	7	27	9	
Total.....	13	16	15	14	14	72	88	36	325	33	28	21	55	22	1

|| Return not received or received too late for publication.

SANITARY ASSOCIATION.

nd Public Institutions of Manchester and adjoining Districts,

8th day of December, 1860.

ALFORD.			HULME.			CHORLTON.		ARDWICK				
..1,329.....			.... 477.....			.. 646...		508	....	...	.....	Area in Statute Acres.
63,851.			.. 53,470. ..			.. 35,546.		16180	....	....	.....	Population in 1851.
AW TS	PUBLIC INSTITUTIONS.		POOR LAW DISTRICTS.									
16	17 Workhouse.	18 Dispensary.	19 New Bailey	20 St. George's.	21 Medlock.	22 St. Philip's	23 Poor Law District.	24 Dispensary.	25 Poor Law District.	26 Ardwick & Ancoats Dispensary.	27 Chorlton Union Workhouse.	Total.	DISEASES.
..	..	..	..	..	..	..	..	1	..	*2	..	3	Small-pox
..	..	..	..	..	..	..	..	..	..	..	..	4	Chicken-pox
..	..	..	..	1	..	..	..	..	..	..	..	1	Measles
..	..	..	..	..	..	..	..	..	..	..	..	2	Scarlatina
..	..	..	.	..	..	..	..	..	..	..	..	..	Diphtheria
..	..	..	..	..	..	..	..	1	..	..	..	2	Whooping-cough
..	..	..	..	..	..	..	..	..	..	..	..	..	Croup
..	..	2	1	1	..	..	..	..	..	1	2	24	Diarrhœa
..	..	1	..	..	..	..	..	..	..	..	..	2	Dysentery
..	..	..	..	..	..	..	..	..	..	..	..	..	Cholera
..	1	..	1	..	..	..	..	4	..	3	..	21	Continued Fever
..	..	3	..	..	..	..	..	..	..	..	..	8	Erysipelas
..	..	..	..	..	..	..	..	..	..	..	..	..	Puerperal Fever
..	..	2	2	..	1	..	..	..	..	4	3	43	Rheumatism
..	..	..	..	..	..	..	..	..	..	1	1	11	Constitutional Syphilis
..	..	4	..	..	..	..	1	2	..	2	1	57	Phthisis
..	..	2	..	..	..	..	1	..	..	..	..	11	Mesenteric Disease
..	..	..	..	1	..	..	..	..	..	2	..	21	Disease of Heart
..	1	..	..	..	..	..	..	..	..	..	..	6	Insanity
.	3	18	1	..	1	1	2	11	1	9	1	153	Bronchitis
.	6	5	10	..	2	..	1	3	..	5	2	65	Influenza and Catarrh
.	..	1	..	..	..	..	..	..	1	2	..	6	Pleurisy
.	1	1	..	..	..	..	..	..	..	..	..	7	Pneumonia
.	..	4	2	..	2	1	..	4	..	1	..	52	Dyspepsia
.	..	..	..	1	..	..	..	1	..	..	..	9	Kidney Disease
.	..	2	..	..	..	1	..	..	..	..	..	13	Neuralgic Affections
.	..	..	..	..	..	..	..	..	..	..	..	1	Carbuncle
.	..	..	..	..	..	..	..	..	..	..	2	4	Ophthalmia
.	9	68	17	1	2	5	7	21	2	48	..	522	Accidents and diseases not classified
.	21	113	34	5	8	8	12	48	4	80	12	1048	Total

Medical Officers to whom the Association is indebted for the annexed Returns.

(1) Mr. T. W. DYSON,
(2) ,, JOHN ARMSTRONG,
(3) ,, J. O. FLETCHER,
(4) ,, C. S. BOMPAS,
(5) ,, EVAN THOMAS,
(6) ,, J. BROADBENT,
(7) Mr. M. ROWLAND DAY,
(8) (9) Dr. JOHN MEDD, Mr. J. S. DAVIES,
(10) (11) ,, W. J. MALLETT,
(12) ,, H. RUNCORN,
(13) Dr. WHITEHEAD,
(14) Mr. W. GOLLAND,
(15) ,, J. TEALE,
(16) ,, M. O. LARMUTH,
(17) ,, T. F. BROWNBILL
(18) Mr. J. O. BRADBURY,
(19) ,, W. B. STOTT,
(20) ,, T. G. RICHMOND,
(21) Dr. ALEX. WILSON,
(22) Mr. H. M. WILLIAMSON.
(23) Mr. W. B. MIDWOOD,
(24) ,, E. HALLEY,
(25) ,, J. M. KIRKMAN.
(26) ,, N. PICKFORD,
(27) ,, GEO. GREAVES.

* Said to have been vaccinated.

Weekly Return of Births and Deaths in Manchester and Salford.

Causes of Death.	Ancoats District, Mr. Royston.	St. George's Dis., Mr. Worthington.	Market-st. Dis., Mr. A. Gardiner.	London-rd. Dis., Dr. Johns.	Deansgate Dis., Mr. Leigh.	Greengate Dis., Mr. Bower.	Regent-rd. Dis., Mr. Tipple.	Chorlton-on-M., Mr. Rowley.	Hulme Township, Mr. Sorby.	Ardwick Tnshp., Mr. Hallsworth.	TOTAL.
Small Pox	..	..	..	..	..	..	..	..	..	..	..
Measles	..	..	..	..	..	..	..	1	..	..	1
Scarlatina	..	..	..	..	..	..	..	..	..	..	..
Diarrhœa	1	.	..	..	..	1	1	..	..	..	3
Fever	3	2	..	..	..	..	1	..	†3	..	9
Diseases of the Lungs	7	6	1	..	3	6	3	2	7	5	40
Other causes	9	14	21	1	8	6	18	3	9	‡3	92
TOTAL NO. OF DEATHS.	20	22	22	*1	11	13	23	6	19	8	145
TOTAL NO. OF BIRTHS.	43	42	13	23	15	27	14	26	47	14	264

* At no period since the Registration Act was commenced has such an event occurred in any of the Manchester Districts. † Typhus, 2. ‡ Diphtheria, 1, (Female aged 28 years.)

Monthly Return of New Cases of Disease coming under Treatment

At 11 *Charitable Institutions in LONDON.*

At Pauper, Charitable, and Public Institutions in MANCHESTER and SALFORD.

5 Weeks ending 29th September.	4 Weeks ending 27th October.	4 Weeks ending 24th November	TOTAL.	DISEASES.	5 Weeks ending 29th September.	4 Weeks ending 27th October.	4 Weeks ending 24th November.	TOTAL.
6	14	9	29	Small-pox	4	5	7	16
15	18	22	55	Chicken-pox	3	8	5	16
62	61	62	185	Measles	27	12	27	66
33	26	16	75	Scarlatina	16	14	11	41
..	..	....	....	Diphtheria	3	..	1	4
17	41	27	85	Whooping-cough	5	10	11	26
2	..	3	5	Croup	1	..	3	4
600	264	198	1062	Diarrhœa	309	165	90	564
5	5	9	19	Dysentery	29	25	7	61
1	1	....	2	Cholera	..	..	....	....
30	35	21	86	Continued Fever	123	137	105	365
13	8	19	40	Erysipelas	14	27	27	68
1	..	1	2	Puerperal Fever	1	2	1	4
43	61	59	163	Rheumatism	152	139	172	463
17	18	13	48	Insanity	46	24	42	112
479	596	720	1795	Bronchitis and Catarrh	668	645	862	2175
11	13	15	39	Pleurisy	17	11	17	45
9	14	18	41	Pneumonia	38	46	33	117
4	4	5	13	Carbuncle	5	10	8	23
4027	3298	3320	10645	Accidents, and all other Diseases	3321	2806	2739	8866
5375	4477	4537	14389	TOTAL	4782	4086	4168	13036

☞ Copies of the "Weekly Return" are regularly forwarded to all Public Institutions from which information is received, also to such public officers as are willing to assist the objects of the compilation. They will also be supplied to the Subscribers upon application to the Secretary, at the Committee Rooms of the Association.

Contributors are requested to forward their communications not later than the Monday in the week following that to which they relate.

The Committee would also be glad to receive any other information respecting the Health of the several districts.

COMMITTEE ROOMS,
59, KING STREET, MANCHESTER.

Powlson and Sons, Printers, Bow Street, John Dalton Street, Manchester.

HEALTH AND METEOROLOGY OF MANCHESTER.

COMMUNICATED TO THE

Manchester and Salford Sanitary Association.

WEEKLY RETURN.

VOL. I.] WEEK ENDING SATURDAY, DECEMBER 15, 1860. [No. 20.

METEOROLOGICAL OBSERVATIONS, TAKEN AT MANCHESTER AND THE NEIGHBOURHOOD,

	Royal Infirmary, M. R. DAY, ESQ.	Old Trafford, G. V. VERNON, ESQ.	Sale, J. CURTIS, ESQ.	Bowdon, Alderman NEILD.
Barometer.	INS.	INS.	INS.	INS.
Mean @ 32° F.	—	29·764	29·772	—
Highest (Unreduced)	—	30·206	30·190	—
Lowest (Unreduced)	—	28·846	28·948	—
Range	—	1·360	1·242	—
Temperature.				
Adopted Mean	42·6	40·8	40·2	40·9
Range for Week	9·0	12·0	15·7	13·3
Daily Range	4·1	6·0	6·9	5·7
Maximum in Shade	47·0	45·8	46·2	46·3
Minimum in Shade	38·0	33·8	30·5	33·0
Maximum in Sun	—	48·0	49·0	64·0
Maximum in Sun: Black bulb in Vacuo	—	49·8	—	—
Minimum on Grass	—	28·4	27·8	28·0
Temperature in Ground at surface	—	40·73	39·87	—
Temperature 6 inches below	—	41·07	40·78	—
Temperature 12 inches below	—	42·32	42·64	—
Temperature of Evaporation	41·3	39·9	38·7	—
Temperature of Dew Point	39·7	38·6	36·8	—
Temperature of Air—Dew Point	2·9	2·2	3·4	—
Hygrometrical condition of the Atmosphere.	GRS.	GRS.	GRS.	GRS.
Weight of Vapour in a cubic foot of Air	2·83	2·79	2·52	—
Required to Saturate do	0·33	0·19	0·40	—
Weight of a cubic foot of Air	548·9	551·0	551·9	—
Degree of Humidity (Saturation—1,000)	0·896	0·928	0·882	
	INS.	INS.	INS.	INS.
Water in a vertical column of the Atmosphere	3·37	3·24	3·01	—
Elastic force of Vapour	0·244	0·234	0·218	—
Clouds (Covered—10 Clear—0)	—	9·8	8·7	—
Prevailing Winds	—	S.W. & N.E.	S.W. & N.E.	S.E. & N.
Rain	—	0·197	0·200	0·170
Days on which it fell	—	4	3	3
Ozonometer.				
Moffat (0—10)	—	0·00	—	—
Schonbein (0—10)	—	0·00	—	—
	INS.	INS.	INS.	
Daily Evaporation	0·029	0·021	0·031	—
Weekly Evaporation	0·203	0·147	0·217	—

The number of barometric oscillations during the past week was 4, and the amount 1·574 inches. The low reading at the commencement of the week was not attended, as it might have been expected, with any great atmospheric disturbance. The mean temperature of the week was 0·9° above the average of the corresponding week for the last eleven years. The advance of temperature, which took place upon the 30th November, continued until the 12th December. The last four days of the week had a mean temperature of 4·8° below that of the first three days. No Ozone was detected at Old Trafford during the week.

The mean temperature of the week declined from the Royal Infirmary to Sale, but slightly advanced at Bowdon. The amount of moisture was the highest at Old Trafford, and the least at Sale.

The week generally was fine but gloomy, the 9th and 15th being especially dull; fog prevailed upon the 15th.

G. V. VERNON, F.R.A.S.

Old Trafford, Manchester,
December 18th, 1860.

MANCHESTER AND SA

New Cases of Disease coming under Treatment in Paupe

During the Week ending

	MANCHESTER.														
Area in Statute Acres	Manchester Township 1,645														
Population in 1851	" " 198,162														
DISEASES.	Poor Law Districts.						Public Institutions.								
								Royal Infirmary.					Children		
	1 Ancoats.	2 St. George's.	3 Market Street.	4 St. Jude's.	5 St. Michael's.	Total of Districts.	6 Workhouse.	7 In-patients.	8 Out-patients.	9 District I.	10 District II.	11 District III.	12 St. Mary's Hospital.	13 Clinical Hospital.	1
Small-pox	..	..	..	..	..	..	..	1	1	..	..	..	..	..	
Chicken-pox	..	1	..	..	..	1	..	..	..	..	..	..	..	..	
Measles	..	..	..	..	..	..	1	..	..	2	..	1	..	..	
Scarlatina	..	..	..	..	..	..	..	..	..	..	..	..	..	1	
Diphtheria	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
Whooping-cough	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
Croup	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
Diarrhœa	1	..	..	..	..	1	1	..	2	5	..	..	3	*4	
Dysentery	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
Cholera	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
Continued Fever	..	..	..	..	..	..	..	3	1	..	..	..	1	..	
Erysipelas	..	..	..	..	..	..	1	..	..	..	..	..	..	..	
Puerperal Fever	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
Rheumatism	..	2	2	..	..	4	7	..	10	..	4	..	..	..	
Constitutional Syphilis	..	1	..	..	..	1	..	1	3	..	..	..	1	..	
Phthisis	..	3	..	..	1	4	3	..	18	..	3	1	..	..	
Mesenteric Disease	..	..	..	..	..	..	..	..	1	..	..	..	..	..	
Disease of Heart	..	..	..	..	..	..	..	..	3	1	3	..	..	..	
Insanity	..	..	..	..	1	1	6	..	..	..	..	..	..	..	
Bronchitis	1	4	4	1	1	11	15	..	45	5	4	10	10	3	
Influenza and Catarrh	..	1	..	4	1	6	2	..	9	4	1	1	2	1	
Pleurisy	..	..	1	..	..	1	..	..	..	..	..	..	..	..	
Pneumonia	..	..	..	..	..	..	..	..	1	2	..	..	1	..	
Dyspepsia	1	..	..	..	..	1	3	1	17	2	2	..	3	1	
Kidney Disease	..	..	..	..	..	..	1	..	1	..	1	..	..	..	
Neuralgic Affections	..	..	..	..	..	..	..	1	10	..	2	..	..	..	
Carbuncle	..	..	..	..	..	..	1	..	..	..	..	..	..	..	
Ophthalmia	..	..	..	..	1	1	1	..	1	..	..	..	1	1	
Accidents and diseases not classified	3	9	5	2	6	25	47	33	168	18	8	8	45	9	
Total	6	21	12	7	11	57	90	40	291	39	28	21	67	20	

* Considerable increase of mucous diarrhœa, ten or twelve cases complicating other existing diseases.

SANITARY ASSOCIATION.

nd Public Institutions of Manchester and adjoining Districts,

5th day of December, 1860.

ALFORD.			HULME.			CHORLTON.		ARDWICK				
..1,329.			.... 477.			.. 646.		508	....	....	.....	Area in Statute Acres.
63,851.			.. 53,470.			.. 35,546		16180	....	....	....	Population in 1851.
Regent Road.	Public Institutions.		Poor Law Districts.									
16	17 Workhouse.	18 Dispensary.	19 New Bailey	20 St. George's.	21 Medlock.	22 St. Philip's	23 Poor Law District.	24 Dispensary.	25 Poor Law District.	26 Ardwick & Ancoats Dispensary.	27 Chorlton Union Workhouse.	Total.	DISEASES.
..	..	..	..	..	..	..	..	..	..	..	..	2	Small-pox
..	..	..	..	..	..	..	..	..	..	..	2	3	Chicken-pox
..	..	..	..	..	..	..	1	..	..	..	..	5	Measles
..	..	..	..	..	..	..	..	..	..	..	..	1	Scarlatina
..	..	..	..	..	..	..	..	..	..	..	..	1	Diphtheria
..	..	..	..	..	..	..	..	..	..	..	..	..	Whooping-cough
..	..	..	..	..	..	..	..	..	..	..	..	..	Croup
..	2	..	2	..	2	..	1	..	..	..	1	24	Diarrhœa
..	..	..	..	..	..	..	..	..	..	..	..	..	Dysentery
..	..	..	..	..	..	..	..	..	..	..	..	..	Cholera
..	..	..	..	..	..	2	1	2	1	4	1	17	Continued Fever
..	..	..	..	..	..	..	..	..	..	..	..	1	Erysipelas
..	..	..	..	..	..	..	..	..	..	..	..	..	Puerperal Fever
..	..	5	1	..	..	1	..	4	1	3	3	45	Rheumatism
..	..	..	..	..	..	..	..	..	..	1	1	9	Constitutional Syphilis
..	..	3	..	..	..	..	..	..	1	6	1	40	Phthisis
..	..	2	..	..	..	..	..	..	..	..	..	3	Mesenteric Disease
..	..	..	..	..	..	..	..	..	..	..	..	7	Disease of Heart
..	2	..	1	..	..	..	..	..	..	..	1	12	Insanity
..	6	20	..	..	..	4	2	5	1	9	..	151	Bronchitis
..	3	8	4	2	7	..	2	5	..	2	2	64	Influenza and Catarrh
..	..	1	..	..	..	..	..	..	..	..	..	2	Pleurisy
..	..	..	..	..	..	..	..	..	..	..	..	4	Pneumonia
..	2	7	1	..	1	3	1	5	..	1	1	53	Dyspepsia
..	..	..	..	..	..	..	..	1	..	..	..	4	Kidney Disease
..	..	2	..	..	..	1	2	..	1	..	..	19	Neuralgic Affections
..	..	1	..	..	..	..	..	..	..	..	..	2	Carbuncle
..	..	..	1	..	..	..	..	1	..	..	1	8	Ophthalmia
..	7	67	10	5	3	6	5	19	2	52	..	539	Accidents and diseases not classified
..	22	116	20	7	13	17	15	42	7	78	14	1016	Total

Medical Officers to whom the Association is indebted for the annexed Returns.

(1) Mr. T. W. DYSON,
(2) " JOHN ARMSTRONG,
(3) " J. O. FLETCHER,
(4) " C. S. BOMPAS,
(5) " EVAN THOMAS,
(6) " J. BROADBENT,
(7) Mr. M. ROWLAND DAY,
(8) (9) Dr. JOHN MEDD,
(10) (11) Mr. J. S. DAVIES,
(11) " W. J. MALLETT,
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(24) " E. HALLEY,
(25) " J. M. KIRKMAN.
(26) " N. PICKFORD,
(27) " GEO. GREAVES.

† Terminated fatally 16th December.
‖ Return not received or received too late for publication.

Weekly Return of Births and Deaths in Manchester and Salford.

Causes of Death.	Ancoats District, Mr. Royston.	St. George's Dis., Mr. Worthington.	Market-st. Dis., Mr. A. Gardiner.	London-rd. Dis., Dr. Johns.	Deansgate Dis., Mr. Leigh.	Greengate Dis., Mr. Bower.	Regent-rd. Dis., Mr. Tipple.	Chorlton-on-M., Mr. Rowley.	Hulme Township, Mr. Sorby.	Ardwick Tnshp., Mr. Hallsworth.	TOTAL.	Average for 4 weeks.
Small Pox	..	..	..	..	..	..	..	..	..	..	..	....
Measles	..	..	..	..	..	..	..	..	..	..	..	2
Scarlatina	..	..	..	..	..	..	..	..	..	..	..	1
Diarrhœa	..	1	..	..	..	..	..	1	..	..	2	3
Fever	1	.	..	1	..	..	..	..	*2	..	4	8
Diseases of the Lungs	6	11	..	3	5	5	2	4	8	2	46	42
Other causes	15	8	20	3	7	4	10	6	12	6	91	112
TOTAL NO. OF DEATHS.	22	20	20	7	12	9	12	11	22	8	143	168
TOTAL NO. OF BIRTHS.	38	36	20	16	18	35	19	22	81	19	304	264

* Typhus.

Monthly Return of New Cases of Disease coming under Treatment

At 11 *Charitable Institutions in LONDON.* — *At Pauper, Charitable, and Public Institutions in MANCHESTER and SALFORD.*

5 Weeks ending 29th September.	4 Weeks ending 27th October.	4 Weeks ending 24th November	TOTAL.	DISEASES.	5 Weeks ending 29th September.	4 Weeks ending 27th October.	4 Weeks ending 24th November.	TOTAL.
6	14	9	29	.... Small-pox	4	5	7	16
15	18	22	55	.... Chicken-pox	3	8	5	16
62	61	62	185	..... Measles	27	12	27	66
33	26	16	75	.... Scarlatina	16	14	11	41
..	..	....	....	.... Diphtheria	3	..	1	4
17	41	27	85	.. Whooping-cough ..	5	10	11	26
2	..	3	5	..... Croup	1	..	3	4
600	264	198	1062	.....Diarrhœa.. ...	309	165	90	564
5	5	9	19	.... Dysentery	29	25	7	61
1	1	....	2	..... Cholera	..	..	....	....
30	35	21	86	.. Continued Fever ..	123	137	105	365
13	8	19	40	.... Erysipelas	14	27	27	68
1	..	1	2	.. Puerperal Fever ..	1	2	1	4
43	61	59	163	.... Rheumatism	152	139	172	463
17	18	13	48	..... Insanity	46	24	42	112
479	596	720	1795	Bronchitis and Catarrh	668	645	862	2175
11	13	15	39	..... Pleurisy	17	11	17	45
9	14	18	41	... Pneumonia	38	46	33	117
4	4	5	13	.... Carbuncle	5	10	8	23
4027	3298	3320	10645	Accidents, and all other Diseases	3321	2806	2739	8866
5375	4477	4537	14389	..... TOTAL	4782	4086	4168	13036

☞ Copies of the "Weekly Return" are regularly forwarded to all Public Institutions from which information is received, also to such public officers as are willing to assist the objects of the compilation. They will also be supplied to the Subscribers upon application to the Secretary, at the Committee Rooms of the Association.

Contributors are requested to forward their communications not later than the Monday in the week following that to which they relate.

The Committee would also be glad to receive any other information respecting the Health of the several districts.

COMMITTEE ROOMS,
59, KING STREET, MANCHESTER.

Powlson and Sons, Printers, Bow Street, John Dalton Street, Manchester.

HEALTH AND METEOROLOGY OF MANCHESTER.

COMMUNICATED TO THE

Manchester and Salford Sanitary Association.

WEEKLY RETURN.

VOL. I.] WEEK ENDING SATURDAY, DECEMBER 22, 1860. [No. 21.

METEOROLOGICAL OBSERVATIONS, TAKEN AT MANCHESTER AND THE NEIGHBOURHOOD,

	Royal Infirmary, M. R. DAY, ESQ.	Old Trafford, G. V. VERNON, ESQ.	Sale, J. CURTIS, ESQ.	Bowdon, Alderman NEILD.
Barometer.	INS.	INS.	INS.	INS.
Mean @ 32° F	—	29·690	29·721	—
Highest (Unreduced)	—	30·040	30·042	—
Lowest (Unreduced)	—	29·234	29·278	—
Range	—	0·806	0·764	—
Temperature.				
Adopted Mean	33·6	29·7	29·2	31·2
Range for Week	15·5	30·0	35·0	24·5
Daily Range	4·7	11·5	14·1	9·5
Maximum in Shade	42·0	43·0	45·0	41·9
Minimum in Shade	27·5	13·0	10·0	17·4
Maximum in Sun	—	45·0	53·3	56·2
Maximum in Sun: Black bulb in Vacuo	—	46·0	—	—
Minimum on Grass	—	12·5	8·0	21·0
Temperature in Ground at surface	—	33·32	30·40	—
Temperature 6 inches below	—	35·04	35·33	—
Temperature 12 inches below	—	37·49	37·79	—
Temperature of Evaporation	32·6	28·8	27·6	—
Temperature of Dew Point	30·8	25·9	22·0	—
Temperature of Air—Dew Point	2·8	3·8	7·2	—
Hygrometrical condition of the Atmosphere.	GRS.	GRS.	GRS.	GRS.
Weight of Vapour in a cubic foot of Air	1·99	1·66	1·30	—
Required to Saturate do	0·28	0·31	0·56	—
Weight of a cubic foot of Air	558·0	562·7	564·0	—
Degree of Humidity (Saturation—1,000)	0·890	0·848	0·736	
	INS.	INS.	INS.	INS.
Water in a vertical column of the Atmosphere	2·38	1·94	1·63	—
Elastic force of Vapour	0·172	0·140	0·118	—
Clouds (Covered—10 Clear—0)	—	7·7	4·0	—
Prevailing Winds	—	S. & N.W.	N.E.	N.W. & S.W.
Rain	—	0·325	0·200	0·030
Days on which it fell	—	4	2	1
Ozonometer.				
Moffat (0—10)	—	0·00	—	—
Schonbein (0—10)	—	0·00	—	—
	INS.	INS.	INS.	
Daily Evaporation	0·021	0·025	0·043	—
Weekly Evaporation	0·147	0·175	0·301	—

NOTE.—The rain fall at Bowdon for this week does not include the snow which fell.

The number of barometric oscillations during the past week was 5, and the amount 1·857 inches. The mean temperature of the week was 8·0° below the average of the last eleven years, and, with the exception of the corresponding week in 1859, the coldest week of the series: it was also the coldest week this year. The mean temperature of the corresponding week in 1855 was 29·9°. Snow fell heavily upon the morning of the 19th, also upon the 20th, 21st, and 22nd. No Ozone was found at Old Trafford during the week.

Excepting Bowdon, the mean temperature of the week diminished as the city was receded from, the quantity of moisture also diminished in the same manner, Sale being the driest. The amount of snow appears to have been the greatest near the city.

G. V. VERNON, F.R.A.S.

Old Trafford, Manchester,
December 26th, 1860.

MANCHESTER AND SA

New Cases of Disease coming under Treatment in Pauper

During the Week ending

	MANCHESTER.														
Area in Statute Acres	Manchester Township 1,645														
Population in 1851	" " 198,162														
	Poor Law Districts.						Public Institutions.								
								Royal Infirmary.					Children		
DISEASES.	1 Ancoats.	2 St. George's.	3 Market Street.	4 St. Jude's.	5 St. Michael's.	Total of Districts.	6 Workhouse.	7 In-patients.	8 Out-patients.	9 District I.	10 District II.	11 District III.	12 St. Mary's Hospital.	13 Clinical Hospital.	14 City Gaol.
Small-pox	..	..	..	..	..	..	1	..	..	..	*1	..	..	..	..
Chicken-pox	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Measles	..	..	..	..	2	2	..	..	..	..	..	..	..	..	..
Scarlatina	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..
Diphtheria	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Whooping-cough	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Croup	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Diarrhœa	..	..	..	..	2	2	3	..	1	..	2	..	4	..	..
Dysentery	..	..	1	..	..	1	..	..	1	..	..	..	2	..	..
Cholera	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Continued Fever	..	..	3	..	..	3	1	1	1	..	1	1	3	..	..
Erysipelas	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1
Puerperal Fever	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Rheumatism	..	..	..	..	2	2	6	2	7	1	2	..	..	..	..
Constitutional Syphilis	..	..	..	..	..	..	1	..	4	..	..	..	2	..	1
Phthisis	..	..	..	..	..	..	1	..	15	6	1	5	..	..	..
Mesenteric Disease	..	..	..	..	..	..	1	..	..	2	..	..	..	..	..
Disease of Heart	1	..	1	..	..	2	1	1	3	1	3	6	..	..	..
Insanity	..	1	..	..	..	1	3	..	40	..	..	..	..	..	..
Bronchitis	3	4	2	..	1	10	17	..	..	10	5	7	3	..	..
Influenza and Catarrh	..	2	..	..	1	3	3	..	7	3	..	..	2	..	..
Pleurisy	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..
Pneumonia	..	..	..	..	..	..	..	..	..	2	..	..	1	..	..
Dyspepsia	..	..	..	..	..	..	..	1	13	..	..	1	1	..	..
Kidney Disease	..	1	..	..	..	1	..	..	..	..	..	..	..	..	..
Neuralgic Affections	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..
Carbuncle	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Ophthalmia	..	1	..	..	..	1	1	..	1	..	..	..	2	..	..
Accidents and diseases not classified	4	3	1	..	6	14	45	41	158	9	2	3	19	..	3
Total	8	12	8	..	14	42	85	49	252	35	17	23	39	..	5

* Not vaccinated.

ANITARY ASSOCIATION.

l Public Institutions of Manchester and adjoining Districts,

nd day of December, 1860.

LFORD.			HULME.			CHORL-TON.		ARD-WICK				
,329.			.... 477.			.. 646. ..		508.	....	....	.....	Area in Statute Acres.
3,851.			.. 53,470. ..			.. 35,546 ..		16180	....	....	.....	Population in 1851.
PUBLIC INSTITUTIONS.			POOR LAW DISTRICTS.									
Workhouse. 17	Dispensary. 18	New Bailey 19	St. George's. 20	Medlock. 21	St. Philip's 22	Poor Law District. 23	Dispensary. 24	Poor Law District. 25	Ardwick & Ancoats Dispensary. 26	Chorlton Union Workhouse. 27	Total.	DISEASES.
..	..	..	..	..	..	..	..	..	1	..	3	Small-pox
..	..	..	..	..	..	..	..	..	..	3	3	Chicken-pox
..	2	..	..	..	..	..	..	..	2	..	6	Measles
..	..	..	..	..	..	..	..	..	..	..	1	Scarlatina
..	..	..	..	..	..	..	..	..	..	..	..	Diphtheria
..	..	..	..	..	..	..	1	..	..	..	1	Whooping-cough
..	..	..	..	..	..	..	..	..	..	..	..	Croup
..	..	1	..	..	1	..	..	..	..	..	14	Diarrhœa
..	2	..	..	..	..	..	..	..	..	..	6	Dysentery
..	..	..	..	..	..	..	..	..	..	..	..	Cholera
..	..	..	..	..	1	..	1	..	7	1	22	Continued Fever
..	..	..	..	..	1	..	1	..	..	1	4	Erysipelas
..	..	..	..	..	..	..	..	..	..	..	..	Puerperal Fever
1	2	1	1	2	..	1	2	..	4	1	36	Rheumatism
..	1	..	..	..	..	..	..	1	1	1	12	Constitutional Syphilis
..	3	..	1	..	..	..	6	..	6	..	44	Phthisis
..	2	..	..	..	..	1	..	..	..	..	6	Mesenteric Disease
..	2	..	..	1	..	..	..	..	1	..	21	Disease of Heart
1	..	..	..	..	..	..	..	..	..	..	45	Insanity
5	25	2	1	..	..	1	15	..	10	2	113	Bronchitis
2	5	7	..	..	..	..	3	..	4	6	46	Influenza and Catarrh
..	1	..	..	..	..	..	1	..	..	..	3	Pleurisy
..	..	..	..	..	..	..	..	..	..	..	3	Pneumonia
..	6	..	..	..	1	1	1	..	..	1	27	Dyspepsia
..	..	..	..	..	..	..	2	..	..	..	3	Kidney Disease
..	..	..	..	..	..	1	1	..	..	1	4	Neuralgic Affections
..	1	..	..	..	..	..	..	..	..	..	1	Carbuncle
1	..	1	..	..	..	..	..	..	..	1	8	Ophthalmia
7	45	12	5	6	11	5	21	2	40	..	454	Accidents and diseases not classified
17	97	24	8	9	15	10	55	3	76	18	886	Total

Medical Officers to whom the Association is indebted for the annexed Returns.

(1) Mr. T. W. DYSON,
(2) ,, JOHN ARMSTRONG,
(3) ,, J. O. FLETCHER,
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|| Returns not received or received too late for publication

Weekly Return of Births and Deaths in Manchester and Salford.

Causes of Death.	Ancoats District, Mr. Royston.	St. George's Dis., Mr. Worthington.	Market-st. Dis., Mr. A. Gardiner.	London-rd. Dis., Dr. Johns.	Deansgate Dis., Mr. Leigh.	Greengate Dis., Mr. Bower.	Regent-rd. Dis., Mr. Tipple.	Chorlton-on-M., Mr. Rowley.	Hulme Township, Mr. Sorby.	Ardwick Tnshp., Mr. Hallsworth.	TOTAL.	Average for 4 weeks.
Small Pox	..	..	..	..	..	..	..	..	..	..	..	....
Measles	..	..	..	..	..	..	..	2	1	..	3	2
Scarlatina	..	.	..	..	..	..	..	..	..	..	..	..
Diarrhœa	1	..	..	..	..	..	1	1	..	..	3	3
Fever	1	1	1	..	..	..	..	..	1	..	4	6
Diseases of the Lungs	11	6	..	3	..	6	2	6	12	4	50	44
Other causes	14	12	25	5	..	7	6	7	18	1	95	99
TOTAL NO. OF DEATHS.	27	19	26	8	..	13	9	16	32	5	155	154
TOTAL NO. OF BIRTHS.	36	38	13	19	..	23	34	24	47	7	241	261

Monthly Return of New Cases of Disease coming under Treatment

At 11 *Charitable Institutions in LONDON.* — *At Pauper, Charitable, and Public Institutions in MANCHESTER and SALFORD.*

5 Weeks ending 29th September.	4 Weeks ending 27th October.	4 Weeks ending 24th November	TOTAL.	DISEASES.	5 Weeks ending 29th September.	4 Weeks ending 27th October.	4 Weeks ending 24th November.	TOTAL.
6	14	9	29	.... Small-pox	4	5	7	16
15	18	22	55	.... Chicken-pox ...	3	8	5	16
62	61	62	185	..... Measles	27	12	27	66
33	26	16	75	.... Scarlatina ...	16	14	11	41
..	..	....	....	.... Diphtheria	3	..	1	4
17	41	27	85	.. Whooping-cough ..	5	10	11	26
2	..	3	5	..... Croup	1	..	3	4
600	264	198	1062	.....Diarrhœa.. ...	309	165	90	564
5	5	9	19	.... Dysentery	29	25	7	61
1	1	....	2	..... Cholera	..	..	....	....
30	35	21	86	.. Continued Fever ..	123	137	105	365
13	8	19	40	.... Erysipelas	14	27	27	68
1	..	1	2	.. Puerperal Fever ..	1	2	1	4
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Manchester and Salford Sanitary Association.

WEEKLY RETURN.

VOL. I.] WEEK ENDING SATURDAY, DECEMBER 29, 1860. [No. 22.

METEOROLOGICAL OBSERVATIONS, TAKEN AT MANCHESTER AND THE NEIGHBOURHOOD,

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Barometer.	INS.	INS.	INS.	INS.
Mean @ 32° F	—	29·584	29·601	—
Highest (Unreduced)	—	30·173	30·168	—
Lowest (Unreduced)	—	29·344	29·370	—
Range	—	0·829	0·798	—
Temperature.				
Adopted Mean	25·8	20·8	16·9	22·6
Range for Week	23·0	37·2	44·2	34·6
Daily Range	9·7	15·1	22·6	15·3
Maximum in Shade	35·0	34·2	34·5	38·6
Minimum in Shade	12·0	3·0	9·7	4·0
Maximum in Sun	—	39·0	45·0	58·3
Maximum in Sun: Black bulb in Vacuo	—	41·0	—	—
Minimum on Grass	—	7·0	9·9	6·0
Temperature in Ground at surface	—	29·96	18·07	—
Temperature 6 inches below	—	31·48	30·36	—
Temperature 12 inches below	—	34·09	33·60	—
Temperature of Evaporation	25·4	19·9	15·9	—
Temperature of Dew Point	23·5	13·8	8·3	—
Temperature of Air—Dew Point	2·3	7·0	8·6	—
Hygrometrical condition of the Atmosphere.	GRS.	GRS.	GRS.	GRS.
Weight of Vapour in a cubic foot of Air	1·52	1·01	0·78	—
Required to Saturate do	0·16	0·37	0·32	—
Weight of a cubic foot of Air	565·1	573·5	577·6	—
Degree of Humidity (Saturation—1,000)	0·888	0·721	0·699	
	INS.	INS.	INS.	INS.
Water in a vertical column of the Atmosphere	3·58	1·12	0·87	—
Elastic force of Vapour	0·126	0·081	0·063	—
Clouds (Covered—10 Clear—0)	—	7·2	4·8	—
Prevailing Winds	—	N.E. & S.E.	N.E. & S.E.	N.W. & S.E.
Rain	—	0·250	0·240	0·290
Days on which it fell	—	2	2	1
Ozonometer.				
Moffat (0—10)	—	0·00	—	—
Schonbein (0—10)	—	0·00	—	—
	INS.	INS.	INS.	
Daily Evaporation	0·014	0·031	0·030	—
Weekly Evaporation	0·098	0·217	0·210	—

There were 7 barometric oscillations during the week, the amount being 1·696 inches.

The mean temperature of the week was 18·2° below the average of the same week for the last eleven years, and was the lowest mean weekly temperature for that period. The minimum temperature, all over the country, on the 25th, was unusually low, and one of very rare occurrence. Snow fell at the beginning of the week, and sleet at the end of it, accompanied by high winds. Ozone was not detected on any day at Old Trafford.

The mean temperature has decreased from the Royal Infirmary to Sale, but increased at Bowdon. The depression at Sale, as compared with the Royal Infirmary, is no less than 8·9°, showing the effect produced by the denser atmosphere of the town, preventing the radiation acting with full force. The humidity diminished as the town was receded from. To account for the difference in the mean temperature of a thermometer at surface of the ground, it may be well to state here that at Old Trafford the bulb is just covered by the soil, whilst at Sale it rests upon the surface

G. V. VERNON, F.R.A.S.

Old Trafford, Manchester,
January 2nd, 1861.

MANCHESTER AND S

New Cases of Disease coming under Treatment in Pau

During the Week endi

	MANCHESTER.													
Area in Statute Acres	Manchester Township 1,645													
Population in 1851	" " 198,162													
	Poor Law Districts.						Public Institutions.							
								Royal Infirmary.					Children	
DISEASES.	1 Ancoats.	2 St. George's.	3 Market Street.	4 St. Jude's.	5 St. Michael's.	Total of Districts.	6 Workhouse.	7 In-patients.	8 Out-patients.	9 District I.	10 District II.	11 District III.	12 St. Mary's Hospital.	13 Clinical Hospital.
Small-pox	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Chicken-pox	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Measles	..	..	..	..	2	2	3	..	..	..	..	..	..	..
Scarlatina	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Diphtheria	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Whooping-cough	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Croup	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Diarrhœa	..	..	..	1	1	2	..	..	..	..	..	..	2	3
Dysentery	..	..	..	..	..	..	..	..	1	..	..	..	..	..
Cholera	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Continued Fever	..	..	..	..	..	..	..	..	..	..	..	..	2	..
Erysipelas	..	..	..	..	1	1	2	..	..	..	..	..	..	..
Puerperal Fever.....	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Rheumatism	1	..	1	1	..	3	2	1	5	3	4	3	..	..
Constitutional Syphilis	..	..	..	..	1	1	..	..	2	..	..	..	..	..
Phthisis	..	1	..	..	1	2	1	..	11	3	..	3	1	..
Mesenteric Disease	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Disease of Heart	..	..	..	..	..	..	..	..	2	3	1	2	..	..
Insanity	..	..	..	..	..	..	2	..	..	..	..	..	..	..
Bronchitis	3	4	6	4	6	23	24	2	35	9	5	9	2	3
Influenza and Catarrh	..	1	..	..	2	3	6	..	16	4	..	1	1	..
Pleurisy	..	..	..	..	..	..	..	..	..	..	..	2	..	..
Pneumonia.....	..	..	..	1	..	1	..	..	..	1	..	..	..	1
Dyspepsia	..	1	..	..	..	1	1	..	17	..	2	..	..	2
Kidney Disease	1	..	..	..	..	1	..	..	..	..	1	..	..	..
Neuralgic Affections	..	..	..	..	..	..	..	..	1	..	..	..	..	..
Carbuncle	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Ophthalmia.....	..	..	..	..	..	..	..	..	..	..	..	..	3	..
Accidents and diseases not classified	3	5	3	9	7	27	34	40	135	9	7	7	6	6
Total.....	8	12	10	16	21	67	75	43	225	32	20	27	17	15

SANITARY ASSOCIATION.

nd Public Institutions of Manchester and adjoining Districts,

29*nd day of December*, 1860.

SALFORD.			HULME.			CHORLTON.		ARDWICK				
1,329			477			646		508				Area in Statute Acres.
63,851			53,470			35,546		16180				Population in 1851.
Regent Road.	Public Institutions.		Poor Law Districts.									
16	17 Workhouse.	18 Dispensary.	19 New Bailey	20 St. George's.	21 Medlock.	22 St. Philip's	23 Poor Law District.	24 Dispensary.	25 Poor Law District.	26 Ardwick & Ancoats Dispensary.	27 Chorlton Union Workhouse.	Total.	DISEASES.
..	..	..	..	..	..	..	..	..	..	..	..	..	Small-pox
..	..	..	..	..	..	..	..	..	..	..	..	..	Chicken-pox
..	..	*3	..	..	..	..	..	2	..	..	..	10	Measles
..	..	..	..	..	..	..	..	..	..	..	..	..	Scarlatina
..	..	..	.	..	..	..	..	..	..	..	..	..	Diphtheria
..	..	..	..	..	..	..	1	..	..	..	1	2	Whooping-cough
..	..	..	..	..	..	..	..	..	..	..	..	..	Croup
..	2	2	2	..	1	..	..	..	..	1	1	16	Diarrhœa
..	..	..	..	..	..	..	..	..	..	..	..	1	Dysentery
..	..	..	..	..	..	..	..	..	..	..	..	..	Cholera
..	..	..	..	..	..	..	1	3	..	1	1	9	Continued Fever
..	1	..	..	..	..	..	..	..	..	..	2	6	Erysipelas
..	1	..	..	..	..	..	..	..	..	..	..	1	Puerperal Fever
..	2	5	..	1	1	1	2	..	..	5	1	39	Rheumatism
..	..	..	..	..	..	..	..	..	..	..	..	3	Constitutional Syphilis
..	1	4	..	..	..	1	..	2	..	6	..	36	Phthisis
..	..	1	..	..	..	..	2	1	..	..	1	5	Mesenteric Disease
..	..	2	..	..	..	..	..	1	..	..	..	11	Disease of Heart
..	3	..	..	..	..	..	..	..	..	..	2	7	Insanity
..	6	31	4	2	2	10	4	15	2	12	1	205	Bronchitis
..	2	..	8	..	2	1	1	2	..	4	4	57	Influenza and Catarrh
..	..	..	1	..	..	..	..	..	..	..	..	4	Pleurisy
..	..	1	..	1	..	..	..	1	..	..	2	8	Pneumonia
..	..	7	..	..	..	1	..	1	..	2	..	35	Dyspepsia
..	..	1	..	..	..	..	..	..	..	..	..	3	Kidney Disease
..	..	..	..	..	..	..	..	..	..	..	1	2	Neuralgic Affections
..	..	..	..	..	..	..	..	..	..	..	..	..	Carbuncle
..	1	..	..	..	..	..	..	1	..	..	..	5	Ophthalmia
..	7	32	6	..	2	6	5	20	2	36	3	396	Accidents and diseases not classified
..	26	89	21	4	8	20	16	49	4	67	20	861	Total

Medical Officers to whom the Association is indebted for the annexed Returns.

(1) Mr. T. W. DYSON,
(2) ,, JOHN ARMSTRONG,
(3) ,, J. O. FLETCHER,
(4) ,, C. S. BOMPAS,
(5) ,, EVAN THOMAS,
(6) ,, J. BROADBENT,

(7) Mr. M. ROWLAND DAY,
(8) (9) Dr. JOHN MEDD, Mr. J. S. DAVIES,
(10) (11) ,, W. J. MALLETT,
(12) ,, H. RUNCORN,

(13) Dr. WHITEHEAD,
(14) Mr. W. GOLLAND,
(15) ,, J. TEALE,
(16) ,, M. O. LARMUTH,
(17) ,, T. F. BROWNBILL

(18) Mr. J. O. BRADBURY,
(19) ,, W. B. STOTT,
(20) ,, T. G. RICHMOND,
(21) Dr. ALEX. WILSON,
(22) Mr. H. M. WILLIAMSON.

(23) Mr. W. B. MIDWOOD,
(24) ,, E. HALLEY,
(25) ,, J. M. KIRKMAN.
(26) ,, N. PICKFORD,
(27) ,, GEO. GREAVES.

Weekly Return of Births and Deaths in Manchester and Salford.

Causes of Death.	Ancoats District, Mr. Royston.	St. George's Dis., Mr. Worthington.	Market-st. Dis., Mr. A. Gardiner.	London-rd. Dis., Dr. Johns.	Deansgate Dis., Mr. Leigh.	Greengate Dis., Mr. Bowel.	Regent-rd. Dis., Mr. Tipple.	Chorlton-on-M., Mr. Rowley.	Hulme Township, Mr. Sorby.	Ardwick Tnshp., Mr. Hallsworth.	TOTAL.	Average for 4 weeks.
Small Pox	..	..	..	..	1	..	..	..	..	..	1	....
Measles	..	..	..	..	..	1	..	1	1	..	3	2
Scarlatina	..	.	..	..	..	..	..	1	1	..	2	1
Diarrhœa	..	1	..	..	2	2	1	1	..	..	7	4
Fever	1	1	..	..	..	2	1	..	..	..	5	6
Diseases of the Lungs	12	10	..	11	9	12	3	17	16	5	95	60
Other causes	35	16	58	21	6	7	15	20*	31†	18	227	130
TOTAL NO. OF DEATHS.	48	28	58	32	18	24	20	40	49	23	340	203
TOTAL NO. OF BIRTHS.	36	39	15	13	22	25	38	21	61	18	288	278

* 12 & †13 Received from the Coroner during the quarter.

Monthly Return of New Cases of Disease coming under Treatment

At 11 *Charitable Institutions in LONDON.*

At Pauper, Charitable, and Public Institutions in MANCHESTER and SALFORD.

5 Weeks ending 29th September.	4 Weeks ending 27th October.	4 Weeks ending 24th November	TOTAL.	DISEASES.	5 Weeks ending 29th September.	4 Weeks ending 27th October.	4 Weeks ending 24th November.	TOTAL.
6	14	9	29	.... Small-pox	4	5	7	16
15	18	22	55	.... Chicken-pox	3	8	5	16
62	61	62	185	..... Measles	27	12	27	66
33	26	16	75	.... Scarlatina	16	14	11	41
..	..	....	....	.... Diphtheria	3	..	1	4
17	41	27	85	.. Whooping-cough ..	5	10	11	26
2	..	3	5	..... Croup	1	..	3	4
600	264	198	1062	.....Diarrhœa.. ...	309	165	90	564
5	5	9	19	.... Dysentery	29	25	7	61
1	1	....	2	..... Cholera	..	..	....	....
30	35	21	86	.. Continued Fever ..	123	137	105	365
13	8	19	40	.... Erysipelas	14	27	27	68
1	..	1	2	.. Puerperal Fever ..	1	2	1	4
43	61	59	163	.... Rheumatism	152	139	172	463
17	18	13	48	..... Insanity	46	24	42	112
479	596	720	1795	Bronchitis and Catarrh	668	645	862	2175
11	13	15	39	..... Pleurisy	17	11	17	45
9	14	18	41	.. Pneumonia	38	46	33	117
4	4	5	13	.... Carbuncle	5	10	8	23
4027	3298	3320	10645	Accidents, and all other Diseases	3321	2806	2739	8866
5375	4477	4537	14389	..... TOTAL	4782	4086	4168	13036

☞ Copies of the "Weekly Return" are regularly forwarded to all Public Institutions from which information is received, also to such public officers as are willing to assist the objects of the compilation. They will also be supplied to the Subscribers upon application to the Secretary, at the Committee Rooms of the Association.

Contributors are requested to forward their communications not later than the Monday in the week following that to which they relate.

The Committee would also be glad to receive any other information respecting the Health of the several districts.

COMMITTEE ROOMS,
33, PALL MALL, MANCHESTER.

Powlson and Sons, Printers, Bow Street, John Dalton Street, Manchester.